The role of supercoiling in transcriptional control of MY molecular therapeutics

Nature Reviews Cancer

9, 849-861

DOI: 10.1038/nrc2733

Citation Report

#	Article	IF	Citations
1	"You Don't Muck with MYC". Genes and Cancer, 2010, 1, 547-554.	0.6	81
2	A subset of microRNAs potentially acts as a convergent hub for upstream transcription factors in cancer cells. Oncology Reports, 2010, 24, 1371-81.	1.2	8
3	Ammonia: A Diffusible Factor Released by Proliferating Cells That Induces Autophagy. Science Signaling, 2010, 3, pe19.	1.6	48
4	The many twists and turns of DNA: template, telomere, tool, and target. Current Opinion in Structural Biology, 2010, 20, 262-275.	2.6	28
5	Bisaryldiketene derivatives: A new class of selective ligands for c-myc G-quadruplex DNA. Bioorganic and Medicinal Chemistry, 2010, 18, 8235-8242.	1.4	47
6	Making sense of Gâ€quadruplex and iâ€motif functions in oncogene promoters. FEBS Journal, 2010, 277, 3459-3469.	2.2	401
7	Myc proteins as therapeutic targets. Oncogene, 2010, 29, 1249-1259.	2.6	177
8	â€œOne Ring to Bind Them Allâ€â€”Part I: The Efficiency of the Macrocyclic Scaffold for G-Quadruplex DNA Recognition. Journal of Nucleic Acids, 2010, 2010, 1-19.	0.8	59
9	Targeting MYC Expression through G-Quadruplexes. Genes and Cancer, 2010, 1, 641-649.	0.6	250
10	The KRAS Promoter Responds to Myc-associated Zinc Finger and Poly(ADP-ribose) Polymerase 1 Proteins, Which Recognize a Critical Quadruplex-forming GA-element. Journal of Biological Chemistry, 2010, 285, 22003-22016.	1.6	124
11	The role of G-quadruplex/i-motif secondary structures as cis-acting regulatory elements. Pure and Applied Chemistry, 2010, 82, 1609-1621.	0.9	64
12	Enhanced G4-DNA binding of 5,10,15,20 (N-propyl-4-pyridyl) porphyrin (TPrPyP4): A comparative study with TMPyP4. Chemical Communications, 2010, 46, 7364.	2.2	18
13	The C-Terminus of Nucleolin Promotes the Formation of the c-MYC G-Quadruplex and Inhibits c-MYC Promoter Activity. Biochemistry, 2010, 49, 9706-9714.	1.2	113
14	Molecular Cloning of the Human Platelet-Derived Growth Factor Receptor Î² (PDGFR-Î²) Promoter and Drug Targeting of the G-Quadruplex-Forming Region To Repress PDGFR-Î² Expression. Biochemistry, 2010, 49, 4208-4219.	1.2	71
15	Optical Properties of Guanine Nanowires: Experimental and Theoretical Study. Journal of Physical Chemistry C, 2010, 114, 14339-14346.	1.5	39
16	Guanine quadruplex DNA structure restricts methylation of CpG dinucleotides genome-wide. Molecular BioSystems, 2010, 6, 2439.	2.9	69
17	An efficient and high-throughput electroporation microchip applicable for siRNA delivery. Lab on A Chip, 2011, 11, 163-172.	3.1	56
18	Tetra-2,3-pyrazinoporphyrazines with Externally Appended Pyridine Rings. 10. A Water-Soluble Bimetallic (Zn^{II}/Pt^{II}) Porphyrazine Hexacation as Potential Plurimodal Agent for Cancer Therapy: Exploring the Behavior as Ligand of Telomeric DNA G-Quadruplex Structures. Inorganic Chemistry, 2011, 50, 7403-7411.	1.9	23

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19	A Laminar Flow Electroporation System for Efficient DNA and siRNA Delivery. Analytical Chemistry, 2011, 83, 5881-5887.	3.2	48
20	Heterogeneous Nuclear Ribonucleoprotein K and Nucleolin as Transcriptional Activators of the Vascular Endothelial Growth Factor Promoter through Interaction with Secondary DNA Structures. Biochemistry, 2011, 50, 3796-3806.	1.2	81
22	pH-Induced Intramolecular Folding Dynamics of i-Motif DNA. Journal of the American Chemical Society, 2011, 133, 16146-16153.	6.6	169
23	DNA acting like RNA. Biochemical Society Transactions, 2011, 39, 635-640.	1.6	10
24	CpG Hypermethylation of the C-myc Promoter by dsRNA Results in Growth Suppression. Molecular Pharmaceutics, 2011, 8, 2302-2309.	2.3	11
25	Solution Structure of a 2:1 Quindolineâ€“c-MYC G-Quadruplex: Insights into G-Quadruplex-Interactive Small Molecule Drug Design. Journal of the American Chemical Society, 2011, 133, 17673-17680.	6.6	313
26	De novoB lymphoblastic leukemia/lymphoma in an adult with t(14;18)(q32;q21) and c-MYCgene rearrangement involving 10p13. Leukemia and Lymphoma, 2011, 52, 2195-2199.	0.6	16
27	Differential gene expression activity among species-specific polypyrimidine/polypurine motifs in mu opioid receptor gene promoters. Gene, 2011, 471, 27-36.	1.0	3
28	Loop residues of thrombin-binding DNA aptamer impact G-quadruplex stability and thrombin binding. Biochimie, 2011, 93, 1231-1238.	1.3	81
29	Cardiotonic steroids attenuate ERK phosphorylation and generate cell cycle arrest to block human hepatoma cell growth. Journal of Steroid Biochemistry and Molecular Biology, 2011, 125, 181-191.	1.2	55
30	A cationic Zn^{II}porphyrazine induces a stable parallel G-quadruplex conformation in human telomeric DNA. Organic and Biomolecular Chemistry, 2011, 9, 684-688.	1.5	28
31	Conformational changes of non-B DNA. Chemical Society Reviews, 2011, 40, 5893.	18.7	309
32	Novel Indolocarbazole Derivative 12-(Î±-L-arabinopyranosyl)indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7-dione Is a Preferred c-MycGuanine Quadruplex Ligand. Journal of Nucleic Acids, 2011, 2011, 1-8.	0.8	2
33	G4-DNA Formation in the HRAS Promoter and Rational Design of Decoy Oligonucleotides for Cancer Therapy. PLoS ONE, 2011, 6, e24421.	1.1	93
34	Targeting G-quadruplexes in gene promoters: a novel anticancer strategy?. Nature Reviews Drug Discovery, 2011, 10, 261-275.	21.5	1,447
35	Quinolino-benzo-[5, 6]-dihydroisoquindolium compounds derived from berberine: A new class of highly selective ligands for G-quadruplex DNA in c-myc oncogene. European Journal of Medicinal Chemistry, 2011, 46, 1906-1913.	2.6	46
36	c-MYC promoter G-quadruplex formed at the 5â€²-end of NHE III 1 element: insights into biological relevance and parallel-stranded G-quadruplex stability. Nucleic Acids Research, 2011, 39, 9023-9033.	6.5	196
37	Demonstration that Drug-targeted Down-regulation of MYC in Non-Hodgkins Lymphoma Is Directly Mediated through the Promoter G-quadruplex. Journal of Biological Chemistry, 2011, 286, 41018-41027.	1.6	149

#	Article	IF	Citations
38	Theoretical Analysis of Competing Conformational Transitions in Superhelical DNA. PLoS Computational Biology, 2012, 8, e1002484.	1.5	31
39	Postradiation cutaneous angiosarcoma after treatment of breast carcinoma is characterized by MYC amplification in contrast to atypical vascular lesions after radiotherapy and control cases: clinicopathological, immunohistochemical and molecular analysis of 66 cases. Modern Pathology, 2012, 25, 75-85.	2.9	245
40	Up-regulation of miR-1245 by c-myc targets BRCA2 and impairs DNA repair. Journal of Molecular Cell Biology, 2012, 4, 108-117.	1.5	40
41	The Guanine-Quadruplex Structure in the Human c-myc Gene's Promoter Is Converted into B-DNA Form by the Human Poly(ADP-Ribose)Polymerase-1. PLoS ONE, 2012, 7, e42690.	1.1	32
42	FOXM1 mediates Dox resistance in breast cancer by enhancing DNA repair. Carcinogenesis, 2012, 33, 1843-1853.	1.3	103
43	A minimal i-motif stabilized by minor groove G:T:G:T tetrads. Nucleic Acids Research, 2012, 40, 11737-11747.	6.5	33
44	MicroRNA-34a suppresses malignant transformation by targeting c-Myc transcriptional complexes in human renal cell carcinoma. Carcinogenesis, 2012, 33, 294-300.	1.3	79
45	NMR spectroscopy of G-quadruplexes. Methods, 2012, 57, 11-24.	1.9	249
46	The yields of transcripts for a RNA polymerase regulated by hairpin structures in nascent RNAs. Chemical Communications, 2012, 48, 5121.	2.2	4
47	Development of a Universal Colorimetric Indicator for G-Quadruplex Structures by the Fusion of Thiazole Orange and Isaindigotone Skeleton. Analytical Chemistry, 2012, 84, 6288-6292.	3.2	42
48	Tertiary DNA Structure in the Single-Stranded hTERT Promoter Fragment Unfolds and Refolds by Parallel Pathways via Cooperative or Sequential Events. Journal of the American Chemical Society, 2012, 134, 5157-5164.	6.6	71
49	Unique Structural Features of Interconverting Monomeric and Dimeric G-Quadruplexes Adopted by a Sequence from the Intron of the N-myc Gene. Journal of the American Chemical Society, 2012, 134, 4132-4141.	6.6	76
50	The importance of being supercoiled: How DNA mechanics regulate dynamic processes. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2012, 1819, 632-638.	0.9	83
51	A shRNA Functional Screen Reveals Nme6 and Nme7 Are Crucial for Embryonic Stem Cell Renewal. Stem Cells, 2012, 30, 2199-2211.	1.4	25
52	Sequence, Stability, and Structure of Gâ€Quadruplexes and Their Interactions with Drugs. Current Protocols in Nucleic Acid Chemistry, 2012, 50, Unit17.5.	0.5	94
53	Gaining Insights into the Small Molecule Targeting of the G-Quadruplex in the c-MYC Promoter Using NMR and an Allele-Specific Transcriptional Assay. Topics in Current Chemistry, 2012, 330, 1-21.	4.0	10
54	New Conjugated Polymers for Photoinduced Unwinding of DNA Supercoiling and Gene Regulation. ACS Applied Materials & Interfaces, 2012, 4, 2334-2337.	4.0	20
55	Genomic Quadruplexes as Therapeutic Targets. , 2012, , 119-138.		3

#	Article	IF	Citations
56	MicroRNA-34a Modulates c-Myc Transcriptional Complexes to Suppress Malignancy in Human Prostate Cancer Cells. PLoS ONE, 2012, 7, e29722.	1.1	129
57	Small-moleculeâ€“induced DNA damage identifies alternative DNA structures in human genes. Nature Chemical Biology, 2012, 8, 301-310.	3.9	576
59	Gâ€Rich Sequenceâ€Specific Recognition and Scission of Human Genome by PNA/DNA Hybrid Gâ€Quadruplex Formation. Angewandte Chemie - International Edition, 2012, 51, 7198-7202.	7.2	22
60	Promoter G-quadruplex sequences are targets for base oxidation and strand cleavage during hypoxia-induced transcription. Free Radical Biology and Medicine, 2012, 53, 51-59.	1.3	65
61	Disubstituted quinazoline derivatives as a new type of highly selective ligands for telomeric G-quadruplex DNA. European Journal of Medicinal Chemistry, 2012, 47, 299-311.	2.6	42
62	Autophagy regulation and its role in cancer. Seminars in Cancer Biology, 2013, 23, 361-379.	4.3	215
63	Synthesis and Evaluation of Quinazolone Derivatives as a New Class of c-KIT G-Quadruplex Binding Ligands. ACS Medicinal Chemistry Letters, 2013, 4, 909-914.	1.3	46
64	Molecular Pathways: Targeting MYC-induced Metabolic Reprogramming and Oncogenic Stress in Cancer. Clinical Cancer Research, 2013, 19, 5835-5841.	3.2	94
65	Cellular MYCro Economics: Balancing MYC Function with MYC Expression. Cold Spring Harbor Perspectives in Medicine, 2013, 3, a014233-a014233.	2.9	48
66	Mechanistic studies for the role of cellular nucleic-acid-binding protein (CNBP) in regulation of c-myc transcription. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 4769-4777.	1.1	37
67	Targeting Non-B-Form DNA in Living Cells. Chemical Record, 2013, 13, 371-384.	2.9	38
68	Carbohydrateâ€“DNA Interactions at Gâ€Quadruplexes: Folding and Stability Changes by Attaching Sugars at the 5â€²â€End. Chemistry - A European Journal, 2013, 19, 1920-1927.	1.7	21
69	Molecular basis of recognition of quadruplexes human telomere and c-myc promoter by the putative anticancer agent sanguinarine. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 4189-4201.	1.1	32
70	Transcription-dependent dynamic supercoiling is a short-range genomic force. Nature Structural and Molecular Biology, 2013, 20, 396-403.	3.6	270
71	Identification and Characterization of New DNA G-Quadruplex Binders Selected by a Combination of Ligand and Structure-Based Virtual Screening Approaches. Journal of Medicinal Chemistry, 2013, 56, 843-855.	2.9	81
72	A Pt(ii)â€“Dip complex stabilizes parallel c-myc G-quadruplex. Chemical Communications, 2013, 49, 4758.	2.2	38
73	Torque Measurement at the Single-Molecule Level. Annual Review of Biophysics, 2013, 42, 583-604.	4.5	71
74	DNA Tetraplexes-Based Toehold Activation for Controllable DNA Strand Displacement Reactions. Journal of the American Chemical Society, 2013, 135, 13628-13631.	6.6	59

#	Article	IF	Citations
75	MAZ-binding G4-decoy with locked nucleic acid and twisted intercalating nucleic acid modifications suppresses KRAS in pancreatic cancer cells and delays tumor growth in mice. Nucleic Acids Research, 2013, 41, 4049-4064.	6.5	87
76	The genome-wide distribution of non-B DNA motifs is shaped by operon structure and suggests the transcriptional importance of non-B DNA structures in Escherichia coli. Nucleic Acids Research, 2013, 41, 5965-5977.	6.5	55
77	Reversible Conformational Switching of iâ€Motif <scp>DNA</scp> Studied by Fluorescence Spectroscopy. Photochemistry and Photobiology, 2013, 89, 513-522.	1.3	28
78	Cellular MYCro Economics: Balancing MYC Function with MYC Expression. Cold Spring Harbor Perspectives in Medicine, 2013, 3, a022483-a022483.	2.9	31
79	G-Quadruplexes as Potential Therapeutic Targets for Embryonal Tumors. Molecules, 2013, 18, 12500-12537.	1.7	38
80	Helping Eve Overcome ADAM: G-Quadruplexes in the ADAM-15 Promoter as New Molecular Targets for Breast Cancer Therapeutics. Molecules, 2013, 18, 15019-15034.	1.7	7
81	Associations between intronic non-B DNA structures and exon skipping. Nucleic Acids Research, 2014, 42, 739-747.	6.5	8
82	DNA G-quadruplex and its potential as anticancer drug target. Science China Chemistry, 2014, 57, 1605-1614.	4.2	59
83	Zinc finger protein ZBTB20 promotes cell proliferation in nonâ€small cell lung cancer through repression of FoxO1. FEBS Letters, 2014, 588, 4536-4542.	1.3	21
84	G-Quadruplex (G4) Motifs in the Maize (Zea mays L.) Genome Are Enriched at Specific Locations in Thousands of Genes Coupled to Energy Status, Hypoxia, Low Sugar, and Nutrient Deprivation. Journal of Genetics and Genomics, 2014, 41, 627-647.	1.7	49
85	Regulation of tyrosine hydroxylase transcription by hnRNP K and DNA secondary structure. Nature Communications, 2014, 5, 5769.	5.8	33
86	Potential non-B DNA regions in the human genome are associated with higher rates of nucleotide mutation and expression variation. Nucleic Acids Research, 2014, 42, 12367-12379.	6.5	45
87	DNA topology and transcription. Nucleus, 2014, 5, 195-202.	0.6	51
88	HRASis silenced by two neighboring G-quadruplexes and activated by MAZ, a zinc-finger transcription factor with DNA unfolding property. Nucleic Acids Research, 2014, 42, 8379-8388.	6.5	99
89	Pack, unpack, bend, twist, pull, push: the physical side of gene expression. Current Opinion in Genetics and Development, 2014, 25, 74-84.	1.5	52
90	Development of a new colorimetric and red-emitting fluorescent dual probe for G-quadruplex nucleic acids. Chemical Communications, 2014, 50, 6927-6930.	2.2	57
91	Noncanonical Structures and Their Thermodynamics of DNA and RNA Under Molecular Crowding. International Review of Cell and Molecular Biology, 2014, 307, 205-273.	1.6	30
92	Close encounters with DNA. Journal of Physics Condensed Matter, 2014, 26, 413101.	0.7	46

#	Article	IF	Citations
93	Folding and Hydrodynamics of a DNA i-Motif from the c-MYC Promoter Determined by Fluorescent Cytidine Analogs. Biophysical Journal, 2014, 107, 1703-1711.	0.2	27
94	MicroRNA-451 induces epithelialâ€“mesenchymal transition in docetaxel-resistant lung adenocarcinoma cells by targeting proto-oncogene c-Myc. European Journal of Cancer, 2014, 50, 3050-3067.	1.3	70
95	The Dynamic Character of the BCL2 Promoter i-Motif Provides a Mechanism for Modulation of Gene Expression by Compounds That Bind Selectively to the Alternative DNA Hairpin Structure. Journal of the American Chemical Society, 2014, 136, 4161-4171.	6.6	218
96	Noncanonical DNA Secondary Structures as Drug Targets: the Prospect of the iâ€Motif. ChemMedChem, 2014, 9, 2026-2030.	1.6	41
97	The Transcriptional Complex Between the BCL2 i-Motif and hnRNP LL Is a Molecular Switch for Control of Gene Expression That Can Be Modulated by Small Molecules. Journal of the American Chemical Society, 2014, 136, 4172-4185.	6.6	207
98	Discovery of a new fluorescent light-up probe specific to parallel G-quadruplexes. Chemical Communications, 2014, 50, 12173-12176.	2.2	48
99	Structure and Conformational Dynamics of a Stacked Dimeric G-Quadruplex Formed by the Human CEB1 Minisatellite. Journal of the American Chemical Society, 2014, 136, 6297-6305.	6.6	63
100	Angiosarcoma primario y secundario de mama: estudio de 8 casos con evidencia de origen linfÃ¡tico en los angiosarcomas posradioterapia. Revista De Senologia Y Patologia Mamaria, 2014, 27, 80-86.	0.0	0
101	Chromatin regulates DNA torsional energy via topoisomerase IIâ€mediated relaxation of positive supercoils. EMBO Journal, 2014, 33, 1492-1501.	3.5	35
102	Synthesis and G-Quadruplex-binding Properties of Cationic Platinum(II) Terpyridine Complexes Containing Ï*f*-Alkynyl Auxiliaries. Chemistry Letters, 2015, 44, 425-427.	0.7	8
103	A Nucleus-Imaging Probe That Selectively Stabilizes a Minor Conformation of c-MYC G-quadruplex and Down-regulates c-MYC Transcription in Human Cancer Cells. Scientific Reports, 2015, 5, 13183.	1.6	55
104	Structure-Based Virtual Screening of Novel Natural Alkaloid Derivatives as Potential Binders of h-telo and c-myc DNA G-Quadruplex Conformations. Molecules, 2015, 20, 206-223.	1.7	25
105	Binding Behaviors for Different Types of DNA Gâ€Quadruplexes: Enantiomers of [Ru(bpy)₂(L)]²⁺ (L=dppz, dppzâ€idzo). Chemistry - A European Journal, 2015, 21, 11435-11445.	1.7	40
106	Molecular Recognition and Visual Detection of Gâ€Quadruplexes by a Dicarbocyanine Dye. Chemistry - A European Journal, 2015, 21, 13802-13811.	1.7	20
107	Gene Therapy of c-myc Suppressor FUSE-Binding Protein-Interacting Repressor by Sendai Virus Delivery Prevents Tracheal Stenosis. PLoS ONE, 2015, 10, e0116279.	1.1	13
108	Effects of Salt on the Stability of a G-Quadruplex from the Human c-MYC Promoter. Biochemistry, 2015, 54, 3420-3430.	1.2	44
109	An oxidative DNA â€œdamageâ€•and repair mechanism localized in the VEGF promoter is important for hypoxia-induced VEGF mRNA expression. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 309, L1367-L1375.	1.3	118
110	Molecular mechanism of G-quadruplex unwinding helicase: sequential and repetitive unfolding of G-quadruplex by Pif1 helicase. Biochemical Journal, 2015, 466, 189-199.	1.7	64

#	Article	IF	Citations
111	Effect of Interior Loop Length on the Thermal Stability and pK_a of i-Motif DNA. Biochemistry, 2015, 54, 1364-1370.	1.2	57
112	Baculoviruses and nucleosome management. Virology, 2015, 476, 257-263.	1.1	7
113	Quadruplex forming promoter region of c-myc oncogene as a potential target for a telomerase inhibitory plant alkaloid, chelerythrine. Biochemical and Biophysical Research Communications, 2015, 459, 75-80.	1.0	14
114	Regulation of telomeric i-motif stability by 5-methylcytosine and 5-hydroxymethylcytosine modification. Organic and Biomolecular Chemistry, 2015, 13, 5646-5651.	1.5	55
115	Nucleotide sequence conservation of novel and established cis-regulatory sites within the tyrosine hydroxylase gene promoter. Frontiers in Biology, 2015, 10, 74-90.	0.7	7
116	Development of a highly sensitive fluorescent light-up probe for G-quadruplexes. Analyst, The, 2015, 140, 4616-4625.	1.7	33
117	cMyc-mediated activation of serine biosynthesis pathway is critical for cancer progression under nutrient deprivation conditions. Cell Research, 2015, 25, 429-444.	5.7	228
118	Interactions of Ptâ€ttpy with Gâ€Quadruplexes Originating from Promoter Region of the câ€myc Gene Deciphered by NMR and Gel Electrophoresis Analysis. Chemistry - A European Journal, 2015, 21, 7798-7807.	1.7	37
119	Rational Control of Folding Cooperativity in DNA Quadruplexes. Journal of the American Chemical Society, 2015, 137, 11234-11237.	6.6	18
120	Identification of a selective G-quadruplex DNA binder using a multistep virtual screening approach. Chemical Communications, 2015, 51, 198-201.	2.2	23
121	Ultrafast Electron Transfer in Complexes of Doxorubicin with Human Telomeric Gâ€Quadruplexes and GC Duplexes Probed by Femtosecond Fluorescence Spectroscopy. ChemPhysChem, 2016, 17, 1264-1272.	1.0	11
122	Synthesis of New DNA Gâ€Quadruplex Constructs with Anthraquinone Insertions and Their Anticoagulant Activity. Helvetica Chimica Acta, 2016, 99, 116-124.	1.0	6
123	Fluorescent Dansylâ€Guanosine Conjugates that Bind câ€MYC Promoter Gâ€Quadruplex and Downregulate câ€MYC Expression. ChemBioChem, 2016, 17, 388-393.	1.3	20
124	Controlling gene expression by DNA mechanics: emerging insights and challenges. Biophysical Reviews, 2016, 8, 23-32.	1.5	7
125	Small molecule regulated dynamic structural changes of human G-quadruplexes. Chemical Science, 2016, 7, 3279-3285.	3.7	41
126	SiO2 nanoparticles modified CPE as a biosensor for determination of i-motif DNA/Tamoxifen interaction. International Journal of Biological Macromolecules, 2016, 89, 421-427.	3.6	8
127	A Comparative Docking Strategy to Identify Polyphenolic Derivatives as Promising Antineoplastic Binders of Gâ€quadruplex DNA câ€myc and bclâ€2 Sequences. Molecular Informatics, 2016, 35, 391-402.	1.4	15
128	Interaction of Individual Structural Domains of hnRNP LL with the BCL2 Promoter i-Motif DNA. Journal of the American Chemical Society, 2016, 138, 10950-10962.	6.6	40

#	Article	IF	Citations
129	GC-elements controlling HRAS transcription form i-motif structures unfolded by heterogeneous ribonucleoprotein particle A1. Scientific Reports, 2016, 5, 18097.	1.6	48
130	Controlling gene expression by DNA mechanics: emerging insights and challenges. Biophysical Reviews, 2016, 8, 259-268.	1.5	22
131	Nucleic acid clamp-mediated recognition and stabilization of the physiologically relevant MYC promoter G-quadruplex. Nucleic Acids Research, 2016, 44, 11013-11023.	6.5	9
132	Identification and characterization of a new G-quadruplex forming region within the kRAS promoter as a transcriptional regulator. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2016, 1859, 235-245.	0.9	52
133	A Role for Non-B DNA Forming Sequences in Mediating Microlesions Causing Human Inherited Disease. Human Mutation, 2016, 37, 65-73.	1.1	22
134	G-quadruplex formation of oligonucleotides containing ALS and FTD related GGGGCC repeat. Frontiers of Chemical Science and Engineering, 2016, 10, 222-237.	2.3	7
135	Selective recognition of c-MYC G-quadruplex DNA using prolinamide derivatives. Organic and Biomolecular Chemistry, 2016, 14, 5761-5767.	1.5	21
136	Preparation of 4-([2,2â€²:6â€²,2â€³-terpyridin]-4â€²-yl)-N,N-diethylaniline Ni II and Pt II complexes and exploration of their inÂvitro cytotoxic activities. European Journal of Medicinal Chemistry, 2016, 108, 1-12.	2.6	46
137	Chelerythrine down regulates expression of VEGFA, BCL2 and KRAS by arresting G-Quadruplex structures at their promoter regions. Scientific Reports, 2017, 7, 40706.	1.6	53
138	Selective Targeting of Gâ€Quadruplex Structures by a Benzothiazoleâ€Based Binding Motif. Chemistry - A European Journal, 2017, 23, 5814-5823.	1.7	11
139	Permanganate/S1 Nuclease Footprinting Reveals Non-B DNA Structures with Regulatory Potential across a Mammalian Genome. Cell Systems, 2017, 4, 344-356.e7.	2.9	169
140	G-Quadruplex surveillance in BCL-2 gene: a promising therapeutic intervention in cancer treatment. Drug Discovery Today, 2017, 22, 1165-1186.	3.2	28
141	Human Telomeric G-Quadruplex Structures and G-Quadruplex-Interactive Compounds. Methods in Molecular Biology, 2017, 1587, 171-196.	0.4	38
142	Synthesis and Molecular Modeling of Thermally Stable DNA Gâ€Quadruplexes with Anthraquinone Insertions. European Journal of Organic Chemistry, 2017, 2017, 3092-3100.	1.2	4
143	Telomeres and Telomerase. Methods in Molecular Biology, 2017, , .	0.4	3
144	G-quadruplexes in human promoters: A challenge for therapeutic applications. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 1399-1413.	1.1	94
145	Resolving the Ligand-Binding Specificity in c-MYC G-Quadruplex DNA: Absolute Binding Free Energy Calculations and SPR Experiment. Journal of Physical Chemistry B, 2017, 121, 10484-10497.	1.2	34
146	Topological impact of noncanonical DNA structures on Klenow fragment of DNA polymerase. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9605-9610.	3.3	104

#	Article	IF	Citations
147	Superhelicity Constrains a Localized and R-Loop-Dependent Formation of G-Quadruplexes at the Upstream Region of Transcription. ACS Chemical Biology, 2017, 12, 2609-2618.	1.6	33
148	Preferential targeting of i-motifs and G-quadruplexes by small molecules. Chemical Science, 2017, 8, 7448-7456.	3.7	65
149	Design, Synthesis, and Evaluation of New Selective NM23-H2 Binders as c-MYC Transcription Inhibitors via Disruption of the NM23-H2/G-Quadruplex Interaction. Journal of Medicinal Chemistry, 2017, 60, 6924-6941.	2.9	32
150	Hybrid DNA i-motif: Aminoethylprolyl-PNA (pC 5) enhance the stability of DNA (dC 5) i-motif structure. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 5424-5428.	1.0	4
151	RAFT Polymerization for the Synthesis of Tertiary Amineâ€Based Diblock Copolymer Nucleic Acid Delivery Vehicles. Macromolecular Bioscience, 2017, 17, 1700225.	2.1	7
152	Structural switch from a multistranded G-quadruplex to single strands as a consequence of point mutation in the promoter of the human GRIN1 gene. Molecular BioSystems, 2017, 13, 1805-1816.	2.9	17
153	Critical role of hnRNP A1 in activating KRAS transcription in pancreatic cancer cells: A molecular mechanism involving G4 DNA. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 1389-1398.	1.1	32
154	Strategies to Inhibit Myc and Their Clinical Applicability. Frontiers in Cell and Developmental Biology, 2017, 5, 10.	1.8	230
155	Review: Plant G-quadruplex (G4) motifs in DNA and RNA; abundant, intriguing sequences of unknown function. Plant Science, 2018, 269, 143-147.	1.7	43
156	Simultaneous Binding of Hybrid Molecules Constructed with Dual DNAâ€Binding Components to a Gâ€Quadruplex and Its Proximal Duplex. Chemistry - A European Journal, 2018, 24, 4428-4435.	1.7	39
157	The 3â€²-end region of the human PDGFR-Î² core promoter nuclease hypersensitive element forms a mixture of two unique end-insertion G-quadruplexes. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 846-854.	1.1	15
158	Human DNA Repair Genes Possess Potential G-Quadruplex Sequences in Their Promoters and 5â€²-Untranslated Regions. Biochemistry, 2018, 57, 991-1002.	1.2	55
159	The regulatory G4 motif of the Kirsten ras (KRAS) gene is sensitive to guanine oxidation: implications on transcription. Nucleic Acids Research, 2018, 46, 661-676.	6.5	187
160	Direct single-molecule observations of DNA unwinding by SV40 large tumor antigen under a negative DNA supercoil state. Journal of Biomolecular Structure and Dynamics, 2018, 36, 32-44.	2.0	6
161	Charge evolution during the unfolding of a single DNA i-motif. Physical Chemistry Chemical Physics, 2018, 20, 916-924.	1.3	14
162	Crystal structure of the major quadruplex formed in the promoter region of the human c-MYC oncogene. PLoS ONE, 2018, 13, e0205584.	1.1	36
163	Case studies on potential G-quadruplex-forming sequences from the bacterial orders Deinococcales and Thermales derived from a survey of published genomes. Scientific Reports, 2018, 8, 15679.	1.6	38
164	Novel splicing in IGFN1 intron 15 and role of stable G-quadruplex in the regulation of splicing in renal cell carcinoma. PLoS ONE, 2018, 13, e0205660.	1.1	22

#	Article	IF	Citations
165	LncRNA EPIC1 protects human osteoblasts from dexamethasone-induced cell death. Biochemical and Biophysical Research Communications, 2018, 503, 2255-2262.	1.0	31
166	Naphthalene diimideâ€derivatives Gâ€quadruplex ligands induce cell proliferation inhibition, mild telomeric dysfunction and cell cycle perturbation in U251MG glioma cells. FEBS Journal, 2018, 285, 3769-3785.	2.2	21
167	Above and Beyond Watson and Crick: Guanine Quadruplex Structures and Microbes. Annual Review of Microbiology, 2018, 72, 49-69.	2.9	28
168	Targeting multiple G-quadruplexâ€"forming DNA sequences: Design, biophysical and biological evaluations of indolo-naphthyridine scaffold derivatives. European Journal of Medicinal Chemistry, 2019, 182, 111627.	2.6	15
169	A DNA Polymerase Stop Assay for Characterization of G-Quadruplex Formation and Identification of G-Quadruplex-Interactive Compounds. Methods in Molecular Biology, 2019, 2035, 223-231.	0.4	6
170	G-Quadruplex DNA and RNA. Methods in Molecular Biology, 2019, 2035, 1-24.	0.4	35
171	NMR Studies of G-Quadruplex Structures and G-Quadruplex-Interactive Compounds. Methods in Molecular Biology, 2019, 2035, 157-176.	0.4	21
172	Expression profiles of long non-coding RNA in mouse lung tissue exposed to radon. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2019, 82, 854-861.	1.1	7
173	DDX5 helicase resolves G-quadruplex and is involved in MYC gene transcriptional activation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20453-20461.	3.3	85
174	Recent Progress of Targeted G-Quadruplex-Preferred Ligands Toward Cancer Therapy. Molecules, 2019, 24, 429.	1.7	214
175	Indenoisoquinoline Topoisomerase Inhibitors Strongly Bind and Stabilize the MYC Promoter G-Quadruplex and Downregulate MYC. Journal of the American Chemical Society, 2019, 141, 11059-11070.	6.6	66
176	Base-Pair Contents and Sequences of DNA Double Helices Differentiated by Surface-Enhanced Raman Spectroscopy. Journal of Physical Chemistry Letters, 2019, 10, 3013-3018.	2.1	19
177	Location dependence of the transcriptional response of a potential G-quadruplex in gene promoters under oxidative stress. Nucleic Acids Research, 2019, 47, 5049-5060.	6.5	44
178	Colocalization of m⁶A and G-Quadruplex-Forming Sequences in Viral RNA (HIV, Zika,) Tj ETQq1 1 0.784314 rgBT /Overlock ACS Central Science, 2019, 5, 218-228.	5.3	39
179	Structural properties and influence of solvent on the stability of telomeric four-stranded i-motif DNA. Physical Chemistry Chemical Physics, 2019, 21, 21549-21560.	1.3	6
180	DNA damage and genome instability by G-quadruplex ligands are mediated by R loops in human cancer cells. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 816-825.	3.3	217
181	Therapeutic Inhibition of Myc in Cancer. Structural Bases and Computer-Aided Drug Discovery Approaches. International Journal of Molecular Sciences, 2019, 20, 120.	1.8	109
182	Interplay of Guanine Oxidation and G-Quadruplex Folding in Gene Promoters. Journal of the American Chemical Society, 2020, 142, 1115-1136.	6.6	99

#	Article	IF	Citations
183	G-quadruplex deconvolution with physiological mimicry enhances primary screening: Optimizing the FRET Melt2 assay. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2020, 1863, 194478.	0.9	4
184	Scavenging of Labile Heme by Hemopexin Is a Key Checkpoint in Cancer Growth and Metastases. Cell Reports, 2020, 32, 108181.	2.9	27
185	Stabilization of G-quadruplex DNA structures in Schizosaccharomyces pombe causes single-strand DNA lesions and impedes DNA replication. Nucleic Acids Research, 2020, 48, 10998-11015.	6.5	17
186	Human MYC G-quadruplex: From discovery to a cancer therapeutic target. Biochimica Et Biophysica Acta: Reviews on Cancer, 2020, 1874, 188410.	3.3	37
187	Custom G4 Microarrays Reveal Selective G-Quadruplex Recognition of Small Molecule BMVC: A Large-Scale Assessment of Ligand Binding Selectivity. Molecules, 2020, 25, 3465.	1.7	16
188	Transcriptional regulation of MYC through G-quadruplex structures. Annual Reports in Medicinal Chemistry, 2020, 54, 361-407.	0.5	4
189	Label-Free Optical Resonator-Based Biosensors. Sensors, 2020, 20, 5901.	2.1	20
190	Development of Selective DNA-Interacting Ligands. Springer Theses, 2020, , .	0.0	0
191	Kinetic Targetâ€Guided Synthesis of Smallâ€Molecule Gâ€Quadruplex Stabilizers. ChemistryOpen, 2020, 9, 1236-1250.	0.9	3
192	The Expression of Human DNA Helicase B Is Affected by G-Quadruplexes in the Promoter. Biochemistry, 2020, 59, 2401-2409.	1.2	6
193	Myc-mediated SDHA acetylation triggers epigenetic regulation of gene expression and tumorigenesis. Nature Metabolism, 2020, 2, 256-269.	5.1	33
194	Real-Time Conformational Change Monitoring of G-Quadruplex Using Capillary-Based Biocompatible Whispering Gallery Mode Microresonator. IEEE Sensors Journal, 2020, 20, 12558-12564.	2.4	6
195	MYCN amplification and ATRX mutations are incompatible in neuroblastoma. Nature Communications, 2020, 11, 913.	5.8	66
196	Inhibition of the ALDH18A1-MYCN positive feedback loop attenuates MYCN -amplified neuroblastoma growth. Science Translational Medicine, 2020, 12, .	5.8	27
197	Conformational Preferences of DNA Strands from the Promoter Region of the c-MYC Oncogene. Journal of Physical Chemistry B, 2020, 124, 751-762.	1.2	11
198	Topologies of G-quadruplex: Biological functions and regulation by ligands. Biochemical and Biophysical Research Communications, 2020, 531, 3-17.	1.0	61
199	A drug-like imidazole-benzothiazole conjugate inhibits malignant melanoma by stabilizing the c-MYC G-quadruplex. Bioorganic Chemistry, 2020, 99, 103866.	2.0	18
200	Selective recognition of DNA parallel G-quadruplexes by 3,8a-disubstituted indolizinones. Bioorganic and Medicinal Chemistry, 2021, 29, 115848.	1.4	0

#	Article	IF	Citations
201	Recent Update on Targeting c-MYC G-Quadruplexes by Small Molecules for Anticancer Therapeutics. Journal of Medicinal Chemistry, 2021, 64, 42-70.	2.9	67
202	MYC gene amplification by fluorescence in situ hybridization and MYC protein expression by immunohistochemistry in the diagnosis of cutaneous angiosarcoma: Systematic review and appropriate use criteria. Journal of Cutaneous Pathology, 2021, 48, 578-586.	0.7	17
203	Recent Developments in Small-Molecule Ligands of Medicinal Relevance for Harnessing the Anticancer Potential of G-Quadruplexes. Molecules, 2021, 26, 841.	1.7	38
204	G-Quadruplex Structures Colocalize with Transcription Factories and Nuclear Speckles Surrounded by Acetylated and Dimethylated Histones H3. International Journal of Molecular Sciences, 2021, 22, 1995.	1.8	12
205	New Insights into the Functions of Nucleic Acids Controlled by Cellular Microenvironments. Topics in Current Chemistry, 2021, 379, 17.	3.0	15
206	Synthesis and in Vitro Evaluation of Novel 5â€Nitroindole Derivatives as câ€Myc Gâ€Quadruplex Binders with Anticancer Activity. ChemMedChem, 2021, 16, 1667-1679.	1.6	4
207	Syntheses and evaluation of acridone-naphthalimide derivatives for regulating oncogene PDGFR-Î² expression. Bioorganic and Medicinal Chemistry, 2021, 34, 116042.	1.4	4
208	G-quadruplex: Flexible conformational changes by cations, pH, crowding and its applications to biosensing. Biosensors and Bioelectronics, 2021, 178, 113030.	5.3	66
209	Parallel G-quadruplexes recruit the HSV-1 transcription factor ICP4 to promote viral transcription in herpes virus-infected human cells. Communications Biology, 2021, 4, 510.	2.0	23
210	The G4 Resolvase DHX36 Possesses a Prognosis Significance and Exerts Tumour Suppressing Function Through Multiple Causal Regulations in Non-Small Cell Lung Cancer. Frontiers in Oncology, 2021, 11, 655757.	1.3	8
211	New Dibenzoquinoxalines Inhibit Triple-Negative Breast Cancer Growth by Dual Targeting of Topoisomerase 1 and the c-MYC G-Quadruplex. Journal of Medicinal Chemistry, 2021, 64, 6720-6729.	2.9	19
212	Gâ€quadruplex regulation of neural gene expression. FEBS Journal, 2022, 289, 3284-3303.	2.2	15
213	Discovery of an Orally Efficacious MYC Inhibitor for Liver Cancer Using a GNMT-Based High-Throughput Screening System and Structureâ€“Activity Relationship Analysis. Journal of Medicinal Chemistry, 2021, 64, 8992-9009.	2.9	5
214	Oxidative stress-mediated epigenetic regulation by G-quadruplexes. NAR Cancer, 2021, 3, zcab038.	1.6	31
215	Targeted Downregulation of MYC through G-quadruplex Stabilization by DNAi. Molecules, 2021, 26, 5542.	1.7	2
216	An increase in DNA G-quadruplex formation in acute myelocytic leukemia is detected by a supramolecular probe. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 260, 119968.	2.0	1
217	Identification of Hub Genes in Atypical Teratoid/Rhabdoid Tumor by Bioinformatics Analyses. Journal of Molecular Neuroscience, 2020, 70, 1906-1913.	1.1	7
218	MYC and Chromatin. Open Access Journal of Science and Technology, 2015, 3, .	0.2	4

#	Article	IF	Citations
219	PIWIL2 induces c-Myc expression by interacting with NME2 and regulates c-Myc-mediated tumor cell proliferation. Oncotarget, 2014, 5, 8466-8477.	0.8	41
220	Aberrant activation of Wnt/Î²-catenin signaling drives proliferation of bone sarcoma cells. Oncotarget, 2015, 6, 17570-17583.	0.8	74
221	Angiosarcoma of the breast, the unknownâ€”a review of the current literature. Translational Cancer Research, 2019, 8, S510-S517.	0.4	11
222	Guanine Quadruplexes in Cell Nucleus Metabolism. Molecular Biology, 2021, 55, 705-726.	0.4	0
223	Folding dynamics of polymorphic <scp>Gâ€quadruplex</scp> structures. Biopolymers, 2022, 113, e23477.	1.2	26
225	The Stomatin-Like Protein SLP-1 and Cdk2 Interact with the F-Box Protein Fbw7-Î³. PLoS ONE, 2012, 7, e47736.	1.1	3
226	FUBP1 (far upstream element (FUSE) binding protein 1). Atlas of Genetics and Cytogenetics in Oncology and Haematology, 2013, , .	0.1	0
228	Metal-Based Drug-DNA Interactions. Journal of the Mexican Chemical Society, 2017, 57, .	0.2	3
229	Chapter 7. Targeting Promoter G-Quadruplexes for Transcriptional Control. RSC Drug Discovery Series, 2018, , 169-193.	0.2	0
230	Simultaneous Binding of Hybrid Molecules Constructed with Dual DNA-Binding Components to a G-Quadruplex and Its Proximal Duplex. Springer Theses, 2020, , 85-109.	0.0	0
232	Vascular lesions of the breast: Essential pathologic features and diagnostic pitfalls. Human Pathology Reports, 2021, 26, 300570.	0.1	3
234	Visualization of ligand-induced c-MYC duplexâ€“quadruplex transition and direct exploration of the altered c-MYC DNA-protein interactions in cells. Nucleic Acids Research, 2022, 50, 4246-4257.	6.5	12
235	Molecular Picture of the Effect of Cosolvent Crowding on Ligand Binding and Dispersed Solvation Dynamics in G-Quadruplex DNA. Journal of Physical Chemistry B, 2022, 126, 1668-1681.	1.2	6
236	Targeting G-Quadruplex DNA for Cancer Chemotherapy. Current Drug Discovery Technologies, 2022, 19, .	0.6	5
237	Recent advances in bioprobes and biolabels based on cyanine dyes. Analytical and Bioanalytical Chemistry, 2022, 414, 4551-4573.	1.9	26
238	Microscopic Insight into pH-Dependent Conformational Dynamics and Noncanonical Base Pairing in Telomeric i-Motif DNA. Journal of Physical Chemistry Letters, 2022, 13, 5109-5115.	2.1	6
239	Topoisomerase 1 inhibits MYC promoter activity by inducing G-quadruplex formation. Nucleic Acids Research, 2022, 50, 6332-6342.	6.5	9
240	Downregulation of HINFP induces senescence-associated secretory phenotype to promote metastasis in a non-cell-autonomous manner in bladder cancer. Oncogene, 2022, 41, 3587-3598.	2.6	8

#	Article	IF	Citations
241	Discriminating between Parallel, Anti-Parallel and Hybrid G-Quadruplexes: Mechanistic Details on Their Binding to Small Molecules. Molecules, 2022, 27, 4165.	1.7	7
242	Distribution of Conformational States Adopted by DNA from the Promoter Regions of the VEGF and Bcl-2 Oncogenes. Journal of Physical Chemistry B, 0, , .	1.2	2
243	DNA G-Quadruplex in Human Telomeres and Oncogene Promoters: Structures, Functions, and Small Molecule Targeting. Accounts of Chemical Research, 2022, 55, 2628-2646.	7.6	46
244	DEAD-box RNA helicase Dbp2 binds to G-quadruplex nucleic acids and regulates different conformation of G-quadruplex DNA. Biochemical and Biophysical Research Communications, 2022, 634, 182-188.	1.0	5
245	G-Quadruplex DNA and Other Non-Canonical B-Form DNA Motifs Influence Productive and Latent HIV-1 Integration and Reactivation Potential. Viruses, 2022, 14, 2494.	1.5	3
246	Structurally diverse G-quadruplexes as the noncanonical nucleic acid drug target for live cell imaging and antibacterial study. Chemical Communications, 2023, 59, 1415-1433.	2.2	7
247	Design, synthesis, and biological evaluation of novel benzimidazolyl isoxazole derivatives as potential c-Myc G4 stabilizers to suppress c-Myc transcription and myeloma growth. Journal of Molecular Structure, 2023, 1275, 134673.	1.8	4
248	Targeting MYC Regulation with Polypurine Reverse Hoogsteen Oligonucleotides. International Journal of Molecular Sciences, 2023, 24, 378.	1.8	4
249	Emerging roles of i-motif in gene expression and disease treatment. Frontiers in Pharmacology, 0, 14, .	1.6	4
250	Development and Characterization of Benzoselenazole Derivatives as Potent and Selective c-MYC Transcription Inhibitors. Journal of Medicinal Chemistry, 2023, 66, 5484-5499.	2.9	5