Shantanu Chowdhury

List of Publications by Year
in descending order

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Version: 2024-02-01

48 papers	2,534 citations	236925 25 h-index	214800 47 g-index
52 all docs	52 docs citations	52 times ranked	3105 citing authors

#	Article	IF	Citations
1	Genome-wide prediction of G4 DNA as regulatory motifs: Role in Escherichia coli global regulation. Genome Research, 2006, 16, 644-655.	5.5	287
2	Engineered reversal of drug resistance in cancer cells–metastases suppressor factors as change agents. Nucleic Acids Research, 2014, 42, 764-773.	14.5	199
3	Genome-Wide Computational and Expression Analyses Reveal G-Quadruplex DNA Motifs as Conserved cis-Regulatory Elements in Human and Related Species. Journal of Medicinal Chemistry, 2008, 51, 5641-5649.	6.4	188
4	Metastases suppressor NM23-H2 interaction with G-quadruplex DNA within c-MYC promoter nuclease hypersensitive element induces c-MYC expression. Nucleic Acids Research, 2009, 37, 172-183.	14.5	152
5	QuadBase: genome-wide database of G4 DNA occurrence and conservation in human, chimpanzee, mouse and rat promoters and 146 microbes. Nucleic Acids Research, 2007, 36, D381-D385.	14.5	125
6	Evidence of genome-wide G4 DNA-mediated gene expression in human cancer cells. Nucleic Acids Research, 2009, 37, 4194-4204.	14.5	125
7	Genome-wide study predicts promoter-G4 DNA motifs regulate selective functions in bacteria: radioresistance of D. radiodurans involves G4 DNA-mediated regulation. Nucleic Acids Research, 2013, 41, 76-89.	14.5	98
8	QuadBase2: web server for multiplexed guanine quadruplex mining and visualization. Nucleic Acids Research, 2016, 44, W277-W283.	14.5	83
9	Non-duplex G-Quadruplex Structures Emerge as Mediators of Epigenetic Modifications. Trends in Genetics, 2019, 35, 129-144.	6.7	77
10	Hoechst 33258 binds to G-quadruplex in the promoter region of human c-myc. Biochemical and Biophysical Research Communications, 2003, 310, 505-512.	2.1	71
11	Lung cancer biomarkers: State of the art. Journal of Carcinogenesis, 2013, 12, 3.	2.5	71
12	Genome-Wide Analyses of Recombination Prone Regions Predict Role of DNA Structural Motif in Recombination. PLoS ONE, 2009, 4, e4399.	2.5	70
13	Guanine quadruplex DNA structure restricts methylation of CpG dinucleotides genome-wide. Molecular BioSystems, 2010, 6, 2439.	2.9	69
14	Thermodynamics of i-tetraplex formation in the nuclease hypersensitive element of human c-myc promoter. Biochemical and Biophysical Research Communications, 2004, 320, 1220-1227.	2.1	59
15	Zinc-finger transcription factors are associated with guanine quadruplex motifs in human, chimpanzee, mouse and rat promoters genome-wide. Nucleic Acids Research, 2011, 39, 8005-8016.	14.5	59
16	Quadruplex-single nucleotide polymorphisms (Quad-SNP) influence gene expression difference among individuals. Nucleic Acids Research, 2012, 40, 3800-3811.	14.5	53
17	Epigenetic suppression of human telomerase (hTERT) is mediated by the metastasis suppressor NME2 in a G-quadruplexâ€“dependent fashion. Journal of Biological Chemistry, 2017, 292, 15205-15215.	3.4	53
18	Genome-wide analysis predicts DNA structural motifs as nucleosome exclusion signals. Molecular BioSystems, 2009, 5, 1703.	2.9	52

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19	Non-metastatic 2 (NME2)-mediated suppression of lung cancer metastasis involves transcriptional regulation of key cell adhesion factor vinculin. Nucleic Acids Research, 2014, 42, 11589-11600.	14.5	47
20	Telomere length-dependent transcription and epigenetic modifications in promoters remote from telomere ends. PLoS Genetics, 2018, 14, e1007782.	3.5	46
21	Transcription regulation of CDKN1A (p21/CIP1/WAF1) by TRF2 is epigenetically controlled through the REST repressor complex. Scientific Reports, 2017, 7, 11541.	3.3	44
22	Kinetic resolution of bimolecular hybridization versus intramolecular folding in nucleic acids by surface plasmon resonance: application to G-quadruplex/duplex competition in human c-myc promoter. Nucleic Acids Research, 2005, 33, 4466-4474.	14.5	32
23	Mechanisms of non-metastatic 2 (NME2)-mediated control of metastasis across tumor types. Naunyn-Schmiedeberg's Archives of Pharmacology, 2011, 384, 397-406.	3.0	31
24	Telomere repeatâ€“binding factor 2 binds extensively to extra-telomeric G-quadruplexes and regulates the epigenetic status of several gene promoters. Journal of Biological Chemistry, 2019, 294, 17709-17722.	3.4	31
25	Non-duplex G-Quadruplex DNA Structure: A Developing Story from Predicted Sequences to DNA Structure-Dependent Epigenetics and Beyond. Accounts of Chemical Research, 2021, 54, 46-56.	15.6	31
26	Metastases suppressor NME2 associates with telomere ends and telomerase and reduces telomerase activity within cells. Nucleic Acids Research, 2012, 40, 2554-2565.	14.5	29
27	Nucleoside diphosphate kinase from Mycobacterium tuberculosis cleaves single strand DNA within the human c-myc promoter in an enzyme-catalyzed reaction. Nucleic Acids Research, 2005, 33, 2707-2714.	14.5	28
28	Promise of G-Quadruplex Structure Binding Ligands as Epigenetic Modifiers with Anti-Cancer Effects. Molecules, 2019, 24, 582.	3.8	28
29	Nuclear Localization and in Situ DNA Damage by Mycobacterium tuberculosis Nucleoside-diphosphate Kinase. Journal of Biological Chemistry, 2004, 279, 50142-50149.	3.4	27
30	Quadruplexâ€“duplex competition in the nuclease hypersensitive element of human c-myc promoter: C to T mutation in C-rich strand enhances duplex association. Biochemical and Biophysical Research Communications, 2005, 327, 49-56.	2.1	23
31	Insights about genome function from spatial organization of the genome. Human Genomics, 2018, 12, 8.	2.9	23
32	A novel Gâ€quadruplex motif modulates promoter activity of human thymidine kinaseâ€ƒ1. FEBS Journal, 2010, 277, 4254-4264.	4.7	22
33	Emerging mechanisms of telomerase reactivation in cancer. Trends in Cancer, 2022, 8, 632-641.	7.4	22
34	Emerging trends in G-quadruplex biology â€“ role in epigenetic and evolutionary events. Molecular BioSystems, 2013, 9, 1568.	2.9	20
35	Inhibition of Endoglinâ€“GIPC Interaction Inhibits Pancreatic Cancer Cell Growth. Molecular Cancer Therapeutics, 2014, 13, 2264-2275.	4.1	20
36	BLM Potentiates c-Jun Degradation and Alters Its Function as an Oncogenic Transcription Factor. Cell Reports, 2018, 24, 947-961.e7.	6.4	19

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37	Quadruplex-Coupled Kinetics Distinguishes Ligand Binding between G4 DNA Motifs. Biochemistry, 2007, 46, 14762-14770.	2.5	18
38	Extratelomeric Binding of the Telomere Binding Protein TRF2 at the PCGF3 Promoter Is G-Quadruplex Motif-Dependent. Biochemistry, 2018, 57, 2317-2324.	2.5	16
39	Human telomerase is directly regulated by non-telomeric TRF2-G-quadruplex interaction. Cell Reports, 2021, 35, 109154.	6.4	16
40	Promoter-proximal transcription factor binding is transcriptionally active when coupled with nucleosome repositioning in immediate vicinity. Nucleic Acids Research, 2014, 42, 9602-9611.	14.5	13
41	NM23/NDPK proteins in transcription regulatory functions and chromatin modulation: emerging trends. Laboratory Investigation, 2018, 98, 175-181.	3.7	13
42	Sequence and expression variations in 23 genes involved in mitochondrial and non-mitochondrial apoptotic pathways and risk of oral leukoplakia and cancer. Mitochondrion, 2015, 25, 28-33.	3.4	9
43	Extra-telomeric impact of telomeres: Emerging molecular connections in pluripotency or stemness. Journal of Biological Chemistry, 2020, 295, 10245-10254.	3.4	9
44	Application of multivariate curve resolution for the study of folding processes of DNA monitored by fluorescence resonance energy transfer. Analytica Chimica Acta, 2005, 536, 135-143.	5.4	8
45	Inhibition of telomerase activity by NME2: impact on metastasis suppression?. Naunyn-Schmiedeberg's Archives of Pharmacology, 2015, 388, 235-241.	3.0	7
46	BreCAN-DB: a repository cum browser of personalized DNA breakpoint profiles of cancer genomes. Nucleic Acids Research, 2016, 44, D952-D958.	14.5	2
47	Emerging Molecular Connections between NM23 Proteins, Telomeres and Telomere-Associated Factors: Implications in Cancer Metastasis and Ageing. International Journal of Molecular Sciences, 2021, 22, 3457.	4.1	2
48	Telomere length dependent regulation of IL1R1 (Interleukin 1Receptor type I) by TRF2 (Telomere repeat) Tj ETQq0 0 0 rgBT /Overlock 10 Journal, 2021, 35, .	0.5	0