VÃ¡clav BrÃ¡zda

List of Publications by Year
in descending order

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Version: 2024-02-01

75	2,481	185998	223531
papers	citations	28 h-index	46 g-index

80	80	80	2525
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	New telomere to telomere assembly of human chromosome 8 reveals a previous underestimation of G-quadruplex forming sequences and inverted repeats. Gene, 2022, 810, 146058.	1.0	4
2	Searching for New Z-DNA/Z-RNA Binding Proteins Based on Structural Similarity to Experimentally Validated ZÎ± Domain. International Journal of Molecular Sciences, 2022, 23, 768.	1.8	11
3	Conservation and over-representation of G-quadruplex sequences in regulatory regions of mitochondrial DNA across distinct taxonomic sub-groups. Biochimie, 2022, 194, 28-34.	1.3	8
4	G-quadruplexes in helminth parasites. Nucleic Acids Research, 2022, 50, 2719-2735.	6.5	10
5	Unheeded SARS-CoV-2 proteins? A deep look into negative-sense RNA. Briefings in Bioinformatics, 2022, 23, .	3.2	15
6	Interaction of Proteins with Inverted Repeats and Cruciform Structures in Nucleic Acids. International Journal of Molecular Sciences, 2022, 23, 6171.	1.8	13
7	Evaluating the Influence of a G-Quadruplex Prone Sequence on the Transactivation Potential by Wild-Type and/or Mutant P53 Family Proteins through a Yeast-Based Functional Assay. Genes, 2021, 12, 277.	1.0	6
8	Tracing dsDNA Virusâ€“Host Coevolution through Correlation of Their G-Quadruplex-Forming Sequences. International Journal of Molecular Sciences, 2021, 22, 3433.	1.8	11
9	Letter to the Editor: Significant mutation enrichment in inverted repeat sites of new SARS-CoV-2 strains. Briefings in Bioinformatics, 2021, 22, .	3.2	2
10	Analysis of putative quadruplex-forming sequences in fungal genomes: novel antifungal targets?. Microbial Genomics, 2021, 7, .	1.0	6
11	Extraordinary diversity of telomeres, telomerase RNAs and their template regions in Saccharomycetaceae. Scientific Reports, 2021, 11, 12784.	1.6	14
12	Analyses of viral genomes for G-quadruplex forming sequences reveal their correlation with the type of infection. Biochimie, 2021, 186, 13-27.	1.3	33
13	Toll-Like Receptor 9-Mediated Neuronal Innate Immune Reaction Is Associated with Initiating a Pro-Regenerative State in Neurons of the Dorsal Root Ganglia Non-Associated with Sciatic Nerve Lesion. International Journal of Molecular Sciences, 2021, 22, 7446.	1.8	8
14	Evolution of Diverse Strategies for Promoter Regulation. Trends in Genetics, 2021, 37, 730-744.	2.9	30
15	The Changes in the p53 Protein across the Animal Kingdom Point to Its Involvement in Longevity. International Journal of Molecular Sciences, 2021, 22, 8512.	1.8	9
16	Novel G-quadruplex prone sequences emerge in the complete assembly of the human X chromosome. Biochimie, 2021, 191, 87-90.	1.3	13
17	G-quadruplexes in H1N1 influenza genomes. BMC Genomics, 2021, 22, 77.	1.2	16
18	SARS-CoV-2 hot-spot mutations are significantly enriched within inverted repeats and CpG island loci. Briefings in Bioinformatics, 2021, 22, 1338-1345.	3.2	20

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19	R-Loop Tracker: Web Access-Based Tool for R-Loop Detection and Analysis in Genomic DNA Sequences. International Journal of Molecular Sciences, 2021, 22, 12857.	1.8	5
20	Divergent distributions of inverted repeats and G-quadruplex forming sequences in Saccharomyces cerevisiae. Genomics, 2020, 112, 1897-1901.	1.3	21
21	Characterization of p53 Family Homologs in Evolutionary Remote Branches of Holozoa. International Journal of Molecular Sciences, 2020, 21, 6.	1.8	40
22	The Influence of Quadruplex Structure in Proximity to P53 Target Sequences on the Transactivation Potential of P53 Alpha Isoforms. International Journal of Molecular Sciences, 2020, 21, 127.	1.8	9
23	G-Quadruplexes in the Archaea Domain. Biomolecules, 2020, 10, 1349.	1.8	31
24	Subarachnoid Hemorrhage Increases Level of Heme Oxygenase-1 and Biliverdin Reductase in the Choroid Plexus. Frontiers in Cellular Neuroscience, 2020, 14, 593305.	1.8	0
25	In-Depth Bioinformatic Analyses of Nidovirales Including Human SARS-CoV-2, SARS-CoV, MERS-CoV Viruses Suggest Important Roles of Non-canonical Nucleic Acid Structures in Their Lifecycles. Frontiers in Microbiology, 2020, 11, 1583.	1.5	57
26	Global analysis of inverted repeat sequences in human gene promoters reveals their non-random distribution and association with specific biological pathways. Genomics, 2020, 112, 2772-2777.	1.3	8
27	G4Killer web application: a tool to design G-quadruplex mutations. Bioinformatics, 2020, 36, 3246-3247.	1.8	9
28	Structures and stability of simple DNA repeats from bacteria. Biochemical Journal, 2020, 477, 325-339.	1.7	30
29	The Rich World of p53 DNA Binding Targets: The Role of DNA Structure. International Journal of Molecular Sciences, 2019, 20, 5605.	1.8	35
30	Voltammetric behavior of a candidate anticancer drug roscovitine at carbon electrodes in aqueous buffers and a cell culture medium. Monatshefte FÃ¼r Chemie, 2019, 150, 461-467.	0.9	7
31	The Presence and Localization of G-Quadruplex Forming Sequences in the Domain of Bacteria. Molecules, 2019, 24, 1711.	1.7	75
32	A Conditioning Sciatic Nerve Lesion Triggers a Pro-regenerative State in Primary Sensory Neurons Also of Dorsal Root Ganglia Non-associated With the Damaged Nerve. Frontiers in Cellular Neuroscience, 2019, 13, 11.	1.8	16
33	Interleukin-6 contributes to initiation of neuronal regeneration program in the remote dorsal root ganglia neurons after sciatic nerve injury. Histochemistry and Cell Biology, 2019, 152, 109-117.	0.8	16
34	G4Hunter web application: a web server for G-quadruplex prediction. Bioinformatics, 2019, 35, 3493-3495.	1.8	134
35	Complex analyses of inverted repeats in mitochondrial genomes revealed their importance and variability. Bioinformatics, 2018, 34, 1081-1085.	1.8	27
36	Bilateral activation of STAT3 by phosphorylation at the tyrosine-705 (Y705) and serine-727 (S727) positions and its nuclear translocation in primary sensory neurons following unilateral sciatic nerve injury. Histochemistry and Cell Biology, 2018, 150, 37-47.	0.8	17

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37	Liver regeneration during the associating liver partition and portal vein ligation for staged hepatectomy procedure in SusÃ¯Â¿Â½scrofa is positively modulated by stem cells. Oncology Letters, 2018, 15, 6309-6321.	0.8	2
38	p73, like its p53 homolog, shows preference for inverted repeats forming cruciforms. PLoS ONE, 2018, 13, e0195835.	1.1	10
39	The Amino Acid Composition of Quadruplex Binding Proteins Reveals a Shared Motif and Predicts New Potential Quadruplex Interactors. Molecules, 2018, 23, 2341.	1.7	51
40	Bioinformatics analyses and inÂvitro evidence for five and six stacked G-quadruplex forming sequences. Biochimie, 2018, 150, 70-75.	1.3	17
41	Complex Analyses of Short Inverted Repeats in All Sequenced Chloroplast DNAs. BioMed Research International, 2018, 2018, 1-10.	0.9	21
42	The structure formed by inverted repeats in p53 response elements determines the transactivation activity of p53 protein. Biochemical and Biophysical Research Communications, 2017, 483, 516-521.	1.0	20
43	Early inflammatory profiling of schwannoma cells induced by lipopolysaccharide. Histochemistry and Cell Biology, 2017, 148, 607-615.	0.8	5
44	Recognition of Local DNA Structures by p53 Protein. International Journal of Molecular Sciences, 2017, 18, 375.	1.8	30
45	Drosophila Model for the Analysis of Genesis of LIM-kinase 1-Dependent Williams-Beuren Syndrome Cognitive Phenotypes: INDELs, Transposable Elements of the Tc1/Mariner Superfamily and MicroRNAs. Frontiers in Genetics, 2017, 8, 123.	1.1	9
46	IFI16 Preferentially Binds to DNA with Quadruplex Structure and Enhances DNA Quadruplex Formation. PLoS ONE, 2016, 11, e0157156.	1.1	30
47	Strong preference of BRCA1 protein to topologically constrained non-B DNA structures. BMC Molecular Biology, 2016, 17, 14.	3.0	13
48	Palindrome analyser â€“ A new web-based server for predicting and evaluating inverted repeats in nucleotide sequences. Biochemical and Biophysical Research Communications, 2016, 478, 1739-1745.	1.0	69
49	DNA and RNA Quadruplex-Binding Proteins. International Journal of Molecular Sciences, 2014, 15, 17493-17517.	1.8	222
50	AB0113â€...Dynamics of Macrophage Activation in Rat Lumbar Ganglia of Rheumatoid Arthritis Model. Annals of the Rheumatic Diseases, 2014, 73, 841.2-841.	0.5	0
51	Bilateral elevation of interleukin-6 protein and mRNA in both lumbar and cervical dorsal root ganglia following unilateral chronic compression injury of the sciatic nerve. Journal of Neuroinflammation, 2013, 10, 55.	3.1	61
52	Dynamic Response to Peripheral Nerve Injury Detected by in Situ Hybridization of IL-6 and its Receptor mRNAs in the Dorsal Root Ganglia is not Strictly Correlated with Signs of Neuropathic Pain. Molecular Pain, 2013, 9, 1744-8069-9-42.	1.0	30
53	Preferential binding of p53 tumor suppressor to p21 promoter sites that contain inverted repeats capable of forming cruciform structure. Biochemical and Biophysical Research Communications, 2013, 441, 83-88.	1.0	27
54	Bilateral Changes of Cannabinoid Receptor Type 2 Protein and mRNA in the Dorsal Root Ganglia of a Rat Neuropathic Pain Model. Journal of Histochemistry and Cytochemistry, 2013, 61, 529-547.	1.3	47

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55	Preferential binding of IFI16 protein to cruciform structure and superhelical DNA. Biochemical and Biophysical Research Communications, 2012, 422, 716-720.	1.0	62
56	Superhelical DNA as a preferential binding target of 14-3-3Î³ protein. Journal of Biomolecular Structure and Dynamics, 2012, 30, 371-378.	2.0	8
57	Interferon-Inducible Protein 16: Insight into the Interaction with Tumor Suppressor p53. Structure, 2011, 19, 418-429.	1.6	82
58	Cruciform structures are a common DNA feature important for regulating biological processes. BMC Molecular Biology, 2011, 12, 33.	3.0	206
59	Spatio-temporal changes of SDF1 and its CXCR4 receptor in the dorsal root ganglia following unilateral sciatic nerve injury as a model of neuropathic pain. Histochemistry and Cell Biology, 2010, 133, 323-337.	0.8	71
60	Satellite glial cells express IL-6 and corresponding signal-transducing receptors in the dorsal root ganglia of rat neuropathic pain model. Neuron Glia Biology, 2010, 6, 73-83.	2.0	92
61	The potential of the cruciform structure formation as an important factor influencing p53 sequence-specific binding to natural DNA targets. Biochemical and Biophysical Research Communications, 2010, 391, 1409-1414.	1.0	29
62	Selective binding of tumor suppressor p53 protein to topologically constrained DNA: Modulation by intercalative drugs. Biochemical and Biophysical Research Communications, 2010, 393, 894-899.	1.0	22
63	Bilateral Changes in IL-6 Protein, but not in its Receptor gp130, in Rat Dorsal Root Ganglia Following Sciatic Nerve Ligature. Cellular and Molecular Neurobiology, 2009, 29, 1053-1062.	1.7	28
64	The Central Region of BRCA1 Binds Preferentially to Supercoiled DNA. Journal of Biomolecular Structure and Dynamics, 2009, 27, 97-103.	2.0	10
65	DNA topology influences p53 sequence-specific DNA binding through structural transitions within the target sites. Biochemical Journal, 2008, 412, 57-63.	1.7	33
66	Searching for target sequences by p53 protein is influenced by DNA length. Biochemical and Biophysical Research Communications, 2006, 341, 470-477.	1.0	18
67	Restoring wild-type conformation and DNA-binding activity of mutant p53 is insufficient for restoration of transcriptional activity. Biochemical and Biophysical Research Communications, 2006, 351, 499-506.	1.0	26
68	Enhancement of p53 sequence-specific binding by DNA supercoiling. Oncogene, 2004, 23, 2119-2127.	2.6	37
69	Activation of the DNA-binding ability of latent p53 protein by protein kinase C is abolished by protein kinase CK2. Biochemical Journal, 2004, 378, 939-947.	1.7	33
70	New ELISA technique for analysis of p53 protein/DNA binding properties. Journal of Immunological Methods, 2002, 267, 227-235.	0.6	56
71	Binding of p53 and its core domain to supercoiled DNA. FEBS Journal, 2001, 268, 573-581.	0.2	34
72	Precise characterisation of monoclonal antibodies to the C-terminal region of p53 protein using the PEPSCAN ELISA technique and a new non-radioactive gel shift assay. Journal of Immunological Methods, 2000, 237, 51-64.	0.6	21

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73	Specific Modulation of p53 Binding to Consensus Sequence within Supercoiled DNA by Monoclonal Antibodies. Biochemical and Biophysical Research Communications, 2000, 267, 934-939.	1.0	29
74	Effect of transition metals on binding of p53 protein to supercoiled DNA and to consensus sequence in DNA fragments. Oncogene, 1999, 18, 3617-3625.	2.6	63
75	Tumor suppressor protein p53 binds preferentially to supercoiled DNA. Oncogene, 1997, 15, 2201-2209.	2.6	82