

VÃ¡clav BrÃ¡zda

List of Publications by Year in descending order

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Version: 2024-02-01

75
papers

2,481
citations

185998

28
h-index

223531

46
g-index

80
all docs

80
docs citations

80
times ranked

2525
citing authors

#	ARTICLE	IF	CITATIONS
1	DNA and RNA Quadruplex-Binding Proteins. <i>International Journal of Molecular Sciences</i> , 2014, 15, 17493-17517.	1.8	222
2	Cruciform structures are a common DNA feature important for regulating biological processes. <i>BMC Molecular Biology</i> , 2011, 12, 33.	3.0	206
3	G4Hunter web application: a web server for G-quadruplex prediction. <i>Bioinformatics</i> , 2019, 35, 3493-3495.	1.8	134
4	Satellite glial cells express IL-6 and corresponding signal-transducing receptors in the dorsal root ganglia of rat neuropathic pain model. <i>Neuron Glia Biology</i> , 2010, 6, 73-83.	2.0	92
5	Tumor suppressor protein p53 binds preferentially to supercoiled DNA. <i>Oncogene</i> , 1997, 15, 2201-2209.	2.6	82
6	Interferon-Inducible Protein 16: Insight into the Interaction with Tumor Suppressor p53. <i>Structure</i> , 2011, 19, 418-429.	1.6	82
7	The Presence and Localization of G-Quadruplex Forming Sequences in the Domain of Bacteria. <i>Molecules</i> , 2019, 24, 1711.	1.7	75
8	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. <i>Histochemistry and Cell Biology</i> , 2010, 133, 323-337.	0.8	71
9	Palindrome analyser – A new web-based server for predicting and evaluating inverted repeats in nucleotide sequences. <i>Biochemical and Biophysical Research Communications</i> , 2016, 478, 1739-1745.	1.0	69
10	Effect of transition metals on binding of p53 protein to supercoiled DNA and to consensus sequence in DNA fragments. <i>Oncogene</i> , 1999, 18, 3617-3625.	2.6	63
11	Preferential binding of IFI16 protein to cruciform structure and superhelical DNA. <i>Biochemical and Biophysical Research Communications</i> , 2012, 422, 716-720.	1.0	62
12	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. <i>Journal of Neuroinflammation</i> , 2013, 10, 55.	3.1	61
13	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. <i>Frontiers in Microbiology</i> , 2020, 11, 1583.	1.5	57
14	New ELISA technique for analysis of p53 protein/DNA binding properties. <i>Journal of Immunological Methods</i> , 2002, 267, 227-235.	0.6	56
15	The Amino Acid Composition of Quadruplex Binding Proteins Reveals a Shared Motif and Predicts New Potential Quadruplex Interactors. <i>Molecules</i> , 2018, 23, 2341.	1.7	51
16	Bilateral Changes of Cannabinoid Receptor Type 2 Protein and mRNA in the Dorsal Root Ganglia of a Rat Neuropathic Pain Model. <i>Journal of Histochemistry and Cytochemistry</i> , 2013, 61, 529-547.	1.3	47
17	Characterization of p53 Family Homologs in Evolutionary Remote Branches of Holozoa. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6.	1.8	40
18	Enhancement of p53 sequence-specific binding by DNA supercoiling. <i>Oncogene</i> , 2004, 23, 2119-2127.	2.6	37

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19	The Rich World of p53 DNA Binding Targets: The Role of DNA Structure. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5605.	1.8	35
20	Binding of p53 and its core domain to supercoiled DNA. <i>FEBS Journal</i> , 2001, 268, 573-581.	0.2	34
21	Activation of the DNA-binding ability of latent p53 protein by protein kinase C is abolished by protein kinase CK2. <i>Biochemical Journal</i> , 2004, 378, 939-947.	1.7	33
22	DNA topology influences p53 sequence-specific DNA binding through structural transitions within the target sites. <i>Biochemical Journal</i> , 2008, 412, 57-63.	1.7	33
23	Analyses of viral genomes for G-quadruplex forming sequences reveal their correlation with the type of infection. <i>Biochimie</i> , 2021, 186, 13-27.	1.3	33
24	G-Quadruplexes in the Archaea Domain. <i>Biomolecules</i> , 2020, 10, 1349.	1.8	31
25	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. <i>Molecular Pain</i> , 2013, 9, 1744-8069-9-42.	1.0	30
26	IFI16 Preferentially Binds to DNA with Quadruplex Structure and Enhances DNA Quadruplex Formation. <i>PLoS ONE</i> , 2016, 11, e0157156.	1.1	30
27	Recognition of Local DNA Structures by p53 Protein. <i>International Journal of Molecular Sciences</i> , 2017, 18, 375.	1.8	30
28	Evolution of Diverse Strategies for Promoter Regulation. <i>Trends in Genetics</i> , 2021, 37, 730-744.	2.9	30
29	Structures and stability of simple DNA repeats from bacteria. <i>Biochemical Journal</i> , 2020, 477, 325-339.	1.7	30
30	Specific Modulation of p53 Binding to Consensus Sequence within Supercoiled DNA by Monoclonal Antibodies. <i>Biochemical and Biophysical Research Communications</i> , 2000, 267, 934-939.	1.0	29
31	The potential of the cruciform structure formation as an important factor influencing p53 sequence-specific binding to natural DNA targets. <i>Biochemical and Biophysical Research Communications</i> , 2010, 391, 1409-1414.	1.0	29
32	Bilateral Changes in IL-6 Protein, but not in its Receptor gp130, in Rat Dorsal Root Ganglia Following Sciatic Nerve Ligature. <i>Cellular and Molecular Neurobiology</i> , 2009, 29, 1053-1062.	1.7	28
33	Preferential binding of p53 tumor suppressor to p21 promoter sites that contain inverted repeats capable of forming cruciform structure. <i>Biochemical and Biophysical Research Communications</i> , 2013, 441, 83-88.	1.0	27
34	Complex analyses of inverted repeats in mitochondrial genomes revealed their importance and variability. <i>Bioinformatics</i> , 2018, 34, 1081-1085.	1.8	27
35	Restoring wild-type conformation and DNA-binding activity of mutant p53 is insufficient for restoration of transcriptional activity. <i>Biochemical and Biophysical Research Communications</i> , 2006, 351, 499-506.	1.0	26
36	Selective binding of tumor suppressor p53 protein to topologically constrained DNA: Modulation by intercalative drugs. <i>Biochemical and Biophysical Research Communications</i> , 2010, 393, 894-899.	1.0	22

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37	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. <i>Journal of Immunological Methods</i> , 2000, 237, 51-64.	0.6	21
38	Complex Analyses of Short Inverted Repeats in All Sequenced Chloroplast DNAs. <i>BioMed Research International</i> , 2018, 2018, 1-10.	0.9	21
39	Divergent distributions of inverted repeats and G-quadruplex forming sequences in <i>Saccharomyces cerevisiae</i> . <i>Genomics</i> , 2020, 112, 1897-1901.	1.3	21
40	The structure formed by inverted repeats in p53 response elements determines the transactivation activity of p53 protein. <i>Biochemical and Biophysical Research Communications</i> , 2017, 483, 516-521.	1.0	20
41	SARS-CoV-2 hot-spot mutations are significantly enriched within inverted repeats and CpG island loci. <i>Briefings in Bioinformatics</i> , 2021, 22, 1338-1345.	3.2	20
42	Searching for target sequences by p53 protein is influenced by DNA length. <i>Biochemical and Biophysical Research Communications</i> , 2006, 341, 470-477.	1.0	18
43	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. <i>Histochemistry and Cell Biology</i> , 2018, 150, 37-47.	0.8	17
44	Bioinformatics analyses and in vitro evidence for five and six stacked G-quadruplex forming sequences. <i>Biochimie</i> , 2018, 150, 70-75.	1.3	17
45	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. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 11.	1.8	16
46	Interleukin-6 contributes to initiation of neuronal regeneration program in the remote dorsal root ganglia neurons after sciatic nerve injury. <i>Histochemistry and Cell Biology</i> , 2019, 152, 109-117.	0.8	16
47	G-quadruplexes in H1N1 influenza genomes. <i>BMC Genomics</i> , 2021, 22, 77.	1.2	16
48	Unheeded SARS-CoV-2 proteins? A deep look into negative-sense RNA. <i>Briefings in Bioinformatics</i> , 2022, 23, .	3.2	15
49	Extraordinary diversity of telomeres, telomerase RNAs and their template regions in <i>Saccharomycetaceae</i> . <i>Scientific Reports</i> , 2021, 11, 12784.	1.6	14
50	Strong preference of BRCA1 protein to topologically constrained non-B DNA structures. <i>BMC Molecular Biology</i> , 2016, 17, 14.	3.0	13
51	Novel G-quadruplex prone sequences emerge in the complete assembly of the human X chromosome. <i>Biochimie</i> , 2021, 191, 87-90.	1.3	13
52	Interaction of Proteins with Inverted Repeats and Cruciform Structures in Nucleic Acids. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6171.	1.8	13
53	Tracing dsDNA Virus-Host Coevolution through Correlation of Their G-Quadruplex-Forming Sequences. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3433.	1.8	11
54	Searching for New Z-DNA/Z-RNA Binding Proteins Based on Structural Similarity to Experimentally Validated Z α Domain. <i>International Journal of Molecular Sciences</i> , 2022, 23, 768.	1.8	11

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55	The Central Region of BRCA1 Binds Preferentially to Supercoiled DNA. <i>Journal of Biomolecular Structure and Dynamics</i> , 2009, 27, 97-103.	2.0	10
56	p73, like its p53 homolog, shows preference for inverted repeats forming cruciforms. <i>PLoS ONE</i> , 2018, 13, e0195835.	1.1	10
57	G-quadruplexes in helminth parasites. <i>Nucleic Acids Research</i> , 2022, 50, 2719-2735.	6.5	10
58	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. <i>Frontiers in Genetics</i> , 2017, 8, 123.	1.1	9
59	The Influence of Quadruplex Structure in Proximity to P53 Target Sequences on the Transactivation Potential of P53 Alpha Isoforms. <i>International Journal of Molecular Sciences</i> , 2020, 21, 127.	1.8	9
60	G4Killer web application: a tool to design G-quadruplex mutations. <i>Bioinformatics</i> , 2020, 36, 3246-3247.	1.8	9
61	The Changes in the p53 Protein across the Animal Kingdom Point to Its Involvement in Longevity. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8512.	1.8	9
62	Superhelical DNA as a preferential binding target of 14-3-3 β protein. <i>Journal of Biomolecular Structure and Dynamics</i> , 2012, 30, 371-378.	2.0	8
63	Global analysis of inverted repeat sequences in human gene promoters reveals their non-random distribution and association with specific biological pathways. <i>Genomics</i> , 2020, 112, 2772-2777.	1.3	8
64	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. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7446.	1.8	8
65	Conservation and over-representation of G-quadruplex sequences in regulatory regions of mitochondrial DNA across distinct taxonomic sub-groups. <i>Biochimie</i> , 2022, 194, 28-34.	1.3	8
66	Voltammetric behavior of a candidate anticancer drug roscovitine at carbon electrodes in aqueous buffers and a cell culture medium. <i>Monatshefte für Chemie</i> , 2019, 150, 461-467.	0.9	7
67	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. <i>Genes</i> , 2021, 12, 277.	1.0	6
68	Analysis of putative quadruplex-forming sequences in fungal genomes: novel antifungal targets?. <i>Microbial Genomics</i> , 2021, 7, .	1.0	6
69	Early inflammatory profiling of schwannoma cells induced by lipopolysaccharide. <i>Histochemistry and Cell Biology</i> , 2017, 148, 607-615.	0.8	5
70	R-Loop Tracker: Web Access-Based Tool for R-Loop Detection and Analysis in Genomic DNA Sequences. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12857.	1.8	5
71	New telomere to telomere assembly of human chromosome 8 reveals a previous underestimation of G-quadruplex forming sequences and inverted repeats. <i>Gene</i> , 2022, 810, 146058.	1.0	4
72	Liver regeneration during the associating liver partition and portal vein ligation for staged hepatectomy procedure in <i>Sus scrofa</i> is positively modulated by stem cells. <i>Oncology Letters</i> , 2018, 15, 6309-6321.	0.8	2

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73	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
74	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
75	ABO113â€¦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