

Olga Lavrik

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/469389/publications.pdf>

Version: 2024-02-01

143
papers

4,549
citations

117625

34
h-index

138484

58
g-index

157
all docs

157
docs citations

157
times ranked

3494
citing authors

#	ARTICLE	IF	CITATIONS
1	Poly(ADP-ribosyl)ation by PARP1: reaction mechanism and regulatory proteins. <i>Nucleic Acids Research</i> , 2019, 47, 3811-3827.	14.5	275
2	The crystal structure of phenylalanyl-tRNA synthetase from <i>Thermus thermophilus</i> complexed with cognate tRNA ^{Phe} . <i>Structure</i> , 1997, 5, 59-68.	3.3	188
3	DNA Polymerase β -mediated Long Patch Base Excision Repair. <i>Journal of Biological Chemistry</i> , 2001, 276, 32411-32414.	3.4	177
4	Photoaffinity Labeling of Mouse Fibroblast Enzymes by a Base Excision Repair Intermediate. <i>Journal of Biological Chemistry</i> , 2001, 276, 25541-25548.	3.4	174
5	Human replication protein A unfolds telomeric G-quadruplexes. <i>Nucleic Acids Research</i> , 2006, 34, 4857-4865.	14.5	163
6	PARP-1 Activation Directs FUS to DNA Damage Sites to Form PARG-Reversible Compartments Enriched in Damaged DNA. <i>Cell Reports</i> , 2019, 27, 1809-1821.e5.	6.4	144
7	Human base excision repair enzymes apurinic/apyrimidinic endonuclease1 (APE1), DNA polymerase β and poly(ADP-ribose) polymerase 1: interplay between strand-displacement DNA synthesis and proofreading exonuclease activity. <i>Nucleic Acids Research</i> , 2005, 33, 1222-1229.	14.5	121
8	Poly(ADP-ribose) polymerases covalently modify strand break termini in DNA fragments <i>in vitro</i> . <i>Nucleic Acids Research</i> , 2016, 44, gkw675.	14.5	94
9	Single molecule detection of PARP1 and PARP2 interaction with DNA strand breaks and their poly(ADP-ribosyl)ation using high-resolution AFM imaging. <i>Nucleic Acids Research</i> , 2016, 44, e60-e60.	14.5	90
10	AP-site cleavage activity of tyrosyl-DNA phosphodiesterase 1. <i>FEBS Letters</i> , 2011, 585, 683-686.	2.8	89
11	XRCC1 interactions with base excision repair DNA intermediates. <i>DNA Repair</i> , 2007, 6, 254-264.	2.8	87
12	AP endonuclease and poly(ADP-ribose) polymerase-1 interact with the same base excision repair intermediate. <i>DNA Repair</i> , 2004, 3, 581-591.	2.8	82
13	Synthesis and biological evaluation of novel tyrosyl-DNA phosphodiesterase 1 inhibitors with a benzopentathiepine moiety. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 2044-2052.	3.0	75
14	Quantitative characterization of protein-protein complexes involved in base excision DNA repair. <i>Nucleic Acids Research</i> , 2015, 43, 6009-6022.	14.5	74
15	Crystal structures of phenylalanyl-tRNA synthetase complexed with phenylalanine and a phenylalanyl-adenylate analogue. <i>Journal of Molecular Biology</i> , 1999, 287, 555-568.	4.2	69
16	Localization of xeroderma pigmentosum group A protein and replication protein A on damaged DNA in nucleotide excision repair. <i>Nucleic Acids Research</i> , 2010, 38, 8083-8094.	14.5	65
17	Tyrosyl-DNA Phosphodiesterase 1 Inhibitors: Usnic Acid Enamines Enhance the Cytotoxic Effect of Camptothecin. <i>Journal of Natural Products</i> , 2016, 79, 2961-2967.	3.0	65
18	Poly(ADP-ribose) polymerase 1 regulates activity of DNA polymerase β in long patch base excision repair. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2010, 685, 80-89.	1.0	64

#	ARTICLE	IF	CITATIONS
19	Tyrosyl-DNA phosphodiesterase inhibitors: Progress and potential. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 5017-5027.	3.0	55
20	New inhibitors of tyrosyl-DNA phosphodiesterase I (Tdp 1) combining 7-hydroxycoumarin and monoterpenoid moieties. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 5573-5581.	3.0	54
21	Interaction of PARP-2 with DNA structures mimicking DNA repair intermediates and consequences on activity of base excision repair proteins. <i>Biochimie</i> , 2013, 95, 1208-1215.	2.6	52
22	Synthesis and Characterization of (d)NTP Derivatives Substituted with Residues of Different Photoreagents. <i>Bioconjugate Chemistry</i> , 1995, 6, 352-360.	3.6	47
23	AP endonuclease 1 has no biologically significant 3'5'-exonuclease activity. <i>Biochemical and Biophysical Research Communications</i> , 2003, 300, 182-187.	2.1	47
24	High affinity interaction of HIV-1 integrase with specific and non-specific single-stranded short oligonucleotides. <i>FEBS Letters</i> , 1999, 455, 154-158.	2.8	45
25	Evidence for direct contact between the RPA3 subunit of the human replication protein A and single-stranded DNA. <i>Nucleic Acids Research</i> , 2009, 37, 38-46.	14.5	45
26	Inhibitors of nuclease and redox activity of apurinic/aprimidinic endonuclease 1/redox effector factor 1 (APE1/Ref-1). <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 2531-2544.	3.0	44
27	Photoaffinity Labeling Technique for Studying DNA Replication and DNA Repair. <i>Current Medicinal Chemistry</i> , 2005, 12, 641-655.	2.4	40
28	Tyrosyl-DNA phosphodiesterase 1 initiates repair of apurinic/aprimidinic sites. <i>Biochimie</i> , 2012, 94, 1749-1753.	2.6	40
29	The mechanism of human tyrosyl-DNA phosphodiesterase 1 in the cleavage of AP site and its synthetic analogs. <i>DNA Repair</i> , 2013, 12, 1037-1042.	2.8	40
30	Human Replication Protein A. <i>Journal of Biological Chemistry</i> , 2003, 278, 17515-17524.	3.4	39
31	Human replication protein A (RPA) binds a primer-template junction in the absence of its major ssDNA-binding domains. <i>Nucleic Acids Research</i> , 2004, 32, 1894-1903.	14.5	39
32	A synthesis, in silico, in vitro and in vivo study of thieno[2,3-b]pyridine anticancer analogues. <i>MedChemComm</i> , 2015, 6, 1987-1997.	3.4	39
33	Naked mole rat cells display more efficient excision repair than mouse cells. <i>Aging</i> , 2018, 10, 1454-1473.	3.1	38
34	Binding polarity of RPA to telomeric sequences and influence of G-quadruplex stability. <i>Biochimie</i> , 2014, 103, 80-88.	2.6	37
35	5' to 3' Unfolding Directionality of DNA Secondary Structures by Replication Protein A. <i>Journal of Biological Chemistry</i> , 2016, 291, 21246-21256.	3.4	37
36	Y-box-binding protein 1 as a non-canonical factor of base excision repair. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2016, 1864, 1631-1640.	2.3	36

#	ARTICLE	IF	CITATIONS
37	Aminoadamantanes containing monoterpene-derived fragments as potent tyrosyl-DNA phosphodiesterase 1 inhibitors. <i>Bioorganic Chemistry</i> , 2018, 76, 392-399.	4.1	35
38	New Hydrazinothiazole Derivatives of Usnic Acid as Potent Tdp1 Inhibitors. <i>Molecules</i> , 2019, 24, 3711.	3.8	34
39	A Single-Molecule Atomic Force Microscopy Study of PARP1 and PARP2 Recognition of Base Excision Repair DNA Intermediates. <i>Journal of Molecular Biology</i> , 2019, 431, 2655-2673.	4.2	34
40	Comparison of functional properties of mammalian DNA polymerase β and DNA polymerase δ in reactions of DNA synthesis related to DNA repair. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2005, 1751, 150-158.	2.3	33
41	Interaction of PARP-2 with AP site containing DNA. <i>Biochimie</i> , 2015, 112, 10-19.	2.6	33
42	Dual DNA topoisomerase 1 and tyrosyl-DNA phosphodiesterase 1 inhibition for improved anticancer activity. <i>Medicinal Research Reviews</i> , 2019, 39, 1427-1441.	10.5	32
43	Promising New Inhibitors of Tyrosyl-DNA Phosphodiesterase I (Tdp 1) Combining 4-Arylcoumarin and Monoterpenoid Moieties as Components of Complex Antitumor Therapy. <i>International Journal of Molecular Sciences</i> , 2020, 21, 126.	4.1	32
44	dNTP Binding to HIV-1 Reverse Transcriptase and Mammalian DNA Polymerase δ as Revealed by Affinity Labeling with a Photoreactive dNTP Analog. <i>Journal of Biological Chemistry</i> , 1996, 271, 21891-21897.	3.4	31
45	A New Highly Efficient Photoreactive Analogue of dCTP. Synthesis, Characterization, and Application in Photoaffinity Modification of DNA Binding Proteins. <i>Bioconjugate Chemistry</i> , 2005, 16, 215-222.	3.6	30
46	Crosslinking of the NER damage recognition proteins XPC-HR23B, XPA and RPA to photoreactive probes that mimic DNA damages. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2007, 1770, 781-789.	2.4	30
47	Poly(ADP-ribose) Polymerase 1 Modulates Interaction of the Nucleotide Excision Repair Factor XPC-RAD23B with DNA via Poly(ADP-ribosylation). <i>Journal of Biological Chemistry</i> , 2015, 290, 21811-21820.	3.4	30
48	Comparative Analysis of Interaction of Human and Yeast DNA Damage Recognition Complexes with Damaged DNA in Nucleotide Excision Repair. <i>Journal of Biological Chemistry</i> , 2013, 288, 10936-10947.	3.4	29
49	The multifunctional protein YB-1 potentiates PARP1 activity and decreases the efficiency of PARP1 inhibitors. <i>Oncotarget</i> , 2018, 9, 23349-23365.	1.8	29
50	An effective two-step synthesis, fluorescent properties, antioxidant activity and cytotoxicity evaluation of benzene-fluorinated 2,2-dimethyl-2,3-dihydro-1H-quinolin-4-ones. <i>Journal of Fluorine Chemistry</i> , 2015, 178, 142-153.	1.7	28
51	A Novel Class of Tyrosyl-DNA Phosphodiesterase 1 Inhibitors That Contains the Octahydro-2H-chromen-4-ol Scaffold. <i>Molecules</i> , 2018, 23, 2468.	3.8	28
52	Fused in Sarcoma (FUS) in DNA Repair: Tango with Poly(ADP-ribose) Polymerase 1 and Compartmentalisation of Damaged DNA. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7020.	4.1	27
53	Synthesis and evaluation of aryliden- and hetarylidenfuranone derivatives of usnic acid as highly potent Tdp1 inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 4470-4480.	3.0	26
54	In vitro lesion bypass by human PrimPol. <i>DNA Repair</i> , 2018, 70, 18-24.	2.8	26

#	ARTICLE	IF	CITATIONS
55	Coordinated Regulation of Replication Protein A Activities by Its Subunits p14 and p32. <i>Journal of Biological Chemistry</i> , 2004, 279, 35368-35376.	3.4	25
56	Photo-Cross-Linking of XPC ^{hHR23B} to Cisplatin-Damaged DNA Reveals Contacts with Both Strands of the DNA Duplex and Spans the DNA Adduct. <i>Biochemistry</i> , 2010, 49, 669-678.	2.5	25
57	PARPs TM impact on base excision DNA repair. <i>DNA Repair</i> , 2020, 93, 102911.	2.8	25
58	Novel Semisynthetic Derivatives of Bile Acids as Effective Tyrosyl-DNA Phosphodiesterase 1 Inhibitors. <i>Molecules</i> , 2018, 23, 679.	3.8	24
59	Dynamic light scattering study of base excision DNA repair proteins and their complexes. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2019, 1867, 297-305.	2.3	24
60	Human apurinic/apyrimidinic endonuclease 1 is modified <i>in vitro</i> by poly(ADP-ribose) polymerase 1 under control of the structure of damaged DNA. <i>Biochimie</i> , 2020, 168, 144-155.	2.6	23
61	Inhibition of Transcription Induces Phosphorylation of YB-1 at Ser102 and Its Accumulation in the Nucleus. <i>Cells</i> , 2020, 9, 104.	4.1	23
62	Disaccharide Pyrimidine Nucleosides and Their Derivatives: A Novel Group of Cell-Penetrating Inhibitors of Poly(ADP-Ribose) Polymerase 1. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2013, 32, 510-528.	1.1	22
63	Poly(ADP-ribosyl)ation as a new posttranslational modification of YB-1. <i>Biochimie</i> , 2015, 119, 36-44.	2.6	22
64	Design of a New Fluorescent Oligonucleotide-Based Assay for a Highly Specific Real-Time Detection of Apurinic/Apyrimidinic Site Cleavage by Tyrosyl-DNA Phosphodiesterase 1. <i>Bioconjugate Chemistry</i> , 2015, 26, 2046-2053.	3.6	22
65	Design, Synthesis, and Biological Investigation of Novel Classes of 3-Carene-Derived Potent Inhibitors of TDP1. <i>Molecules</i> , 2020, 25, 3496.	3.8	22
66	Synthesis of Base-Substituted dUTP Analogues Carrying a Photoreactive Group and Their Application to Study Human Replication Protein A. <i>Bioconjugate Chemistry</i> , 2000, 11, 445-451.	3.6	21
67	Trapping of DNA topoisomerase I on nick-containing DNA in cell free extracts of <i>Saccharomyces cerevisiae</i> . <i>DNA Repair</i> , 2006, 5, 799-809.	2.8	21
68	Trapping of human DNA topoisomerase I by DNA structures mimicking intermediates of DNA repair. <i>IUBMB Life</i> , 2008, 60, 130-134.	3.4	21
69	Effect of the multifunctional proteins RPA, YB ¹ , and XPC repair factor on AP site cleavage by DNA glycosylase NEIL1. <i>Journal of Molecular Recognition</i> , 2012, 25, 224-233.	2.1	21
70	Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) interacts with apurinic/apyrimidinic sites in DNA. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2015, 779, 46-57.	1.0	21
71	Usnic Acid Conjugates with Monoterpenoids as Potent Tyrosyl-DNA Phosphodiesterase 1 Inhibitors. <i>Journal of Natural Products</i> , 2020, 83, 2320-2329.	3.0	21
72	Regulation of Poly(ADP-Ribose) Polymerase 1 Activity by Y-Box-Binding Protein 1. <i>Biomolecules</i> , 2020, 10, 1325.	4.0	21

#	ARTICLE	IF	CITATIONS
73	RPA repair recognition of DNA containing pyrimidines bearing bulky adducts. <i>Journal of Molecular Recognition</i> , 2008, 21, 154-162.	2.1	20
74	Clustered DNA Lesions Containing 5-Formyluracil and AP Site: Repair via the BER System. <i>PLoS ONE</i> , 2013, 8, e68576.	2.5	20
75	Molecular Mechanisms of PARP-1 Inhibitor 7-Methylguanine. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2159.	4.1	20
76	Photoaffinity labeling of proteins in bovine testis nuclear extract. <i>Biochemical and Biophysical Research Communications</i> , 2002, 297, 714-721.	2.1	18
77	Human DNA polymerase δ catalyzes lesion bypass across benzo[a]pyrene-derived DNA adduct during base excision repair. <i>DNA Repair</i> , 2012, 11, 367-373.	2.8	18
78	Novel group of tyrosyl-DNA-phosphodiesterase 1 inhibitors based on disaccharide nucleosides as drug prototypes for anti-cancer therapy. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 1415-1429.	5.2	18
79	The Development of Tyrosyl-DNA Phosphodiesterase 1 Inhibitors. Combination of Monoterpene and Adamantine Moieties via Amide or Thioamide Bridges. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2767.	2.5	18
80	Deoxycholic acid as a molecular scaffold for tyrosyl-DNA phosphodiesterase 1 inhibition: A synthesis, structure-activity relationship and molecular modeling study. <i>Steroids</i> , 2021, 165, 108771.	1.8	18
81	Nucleotide Excision Repair: From Molecular Defects to Neurological Abnormalities. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6220.	4.1	18
82	RPA and XPA interaction with DNA structures mimicking intermediates of the late stages in nucleotide excision repair. <i>PLoS ONE</i> , 2018, 13, e0190782.	2.5	17
83	Novel Inhibitors of DNA Repair Enzyme TDP1 Combining Monoterpenoid and Adamantane Fragments. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2019, 19, 463-472.	1.7	17
84	New synthetic substrates of mammalian nucleotide excision repair system. <i>Nucleic Acids Research</i> , 2013, 41, e123-e123.	14.5	16
85	Dehydroabietylamine Ureas and Thioureas as Tyrosyl-DNA Phosphodiesterase 1 Inhibitors That Enhance the Antitumor Effect of Temozolomide on Glioblastoma Cells. <i>Journal of Natural Products</i> , 2019, 82, 2443-2450.	3.0	16
86	New Hybrid Compounds Combining Fragments of Usnic Acid and Monoterpenoids for Effective Tyrosyl-DNA Phosphodiesterase 1 Inhibition. <i>Biomolecules</i> , 2021, 11, 973.	4.0	16
87	Essential functions of the 32 kDa subunit of yeast replication protein A. <i>Nucleic Acids Research</i> , 2009, 37, 2313-2326.	14.5	15
88	Novel Tdp1 Inhibitors Based on Adamantane Connected with Monoterpene Moieties via Heterocyclic Fragments. <i>Molecules</i> , 2021, 26, 3128.	3.8	15
89	Dual function of HPF1 in the modulation of PARP1 and PARP2 activities. <i>Communications Biology</i> , 2021, 4, 1259.	4.4	15
90	Recognition of tRNA ^{Phe} by Phenylalanyl-tRNA Synthetase of <i>Thermus Thermophilus</i> . <i>FEBS Journal</i> , 1995, 234, 897-902.	0.2	14

#	ARTICLE	IF	CITATIONS
91	Determination of tRNAPhe nucleotides contacting the subunits of Thermus thermophilus phenylalanyl-tRNA synthetase by photoaffinity crosslinking. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2001, 1518, 226-236.	2.4	14
92	New Hybrid Compounds Combining Fragments of Usnic Acid and Thioether Are Inhibitors of Human Enzymes TDP1, TDP2 and PARP1. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11336.	4.1	14
93	Prokaryotic and Eukaryotic Tetrameric Phenylalanyl-tRNA Synthetases Display Conservation of the Binding Mode of the tRNAPheCCA End. <i>Biochemistry</i> , 2003, 42, 10697-10708.	2.5	13
94	Thermostable DNA polymerases can perform translesion synthesis using 8-oxoguanine and tetrahydrofuran-containing DNA templates. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006, 1764, 97-104.	2.3	13
95	Replication protein A as a modulator of the poly(ADP-ribose)polymerase 1 activity. <i>DNA Repair</i> , 2018, 72, 28-38.	2.8	13
96	Inhibitory Effect of New Semisynthetic Usnic Acid Derivatives on Human Tyrosyl-DNA Phosphodiesterase 1. <i>Planta Medica</i> , 2019, 85, 103-111.	1.3	13
97	The First Berberine-Based Inhibitors of Tyrosyl-DNA Phosphodiesterase 1 (Tdp1), an Important DNA Repair Enzyme. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7162.	4.1	13
98	Functional Role of N-Terminal Extension of Human AP Endonuclease 1 In Coordination of Base Excision DNA Repair via Protein-Protein Interactions. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3122.	4.1	12
99	PARP1 Regulates the Biogenesis and Activity of Telomerase Complex Through Modification of H/ACA-Proteins. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 621134.	3.7	12
100	Human and yeast DNA damage recognition complexes bind with high affinity DNA structures mimicking in size transcription bubble. <i>Journal of Molecular Recognition</i> , 2013, 26, 653-661.	2.1	11
101	Poly(ADP-ribose)polymerase 1 stimulates the AP-site cleavage activity of tyrosyl-DNA phosphodiesterase 1. <i>Bioscience Reports</i> , 2015, 35, .	2.4	11
102	Unusual interaction of human apurinic/apyrimidinic endonuclease 1 (APE1) with abasic sites via the Schiff-base-dependent mechanism. <i>Biochimie</i> , 2018, 150, 88-99.	2.6	11
103	Non-canonical interaction of DNA repair proteins with intact and cleaved AP sites. <i>DNA Repair</i> , 2020, 90, 102847.	2.8	11
104	Adamantane-Monoterpenoid Conjugates Linked via Heterocyclic Linkers Enhance the Cytotoxic Effect of Topotecan. <i>Molecules</i> , 2022, 27, 3374.	3.8	11
105	Ddc1 checkpoint protein and DNA polymerase ϵ interact with nick-containing DNA repair intermediate in cell free extracts of <i>Saccharomyces cerevisiae</i> . <i>DNA Repair</i> , 2011, 10, 815-825.	2.8	10
106	Influence of Usnic Acid and its Derivatives on the Activity of Mammalian Poly(ADP-ribose)polymerase 1 and DNA Polymerase β . <i>Medicinal Chemistry</i> , 2012, 8, 883-893.	1.5	10
107	Design, Synthesis and Molecular Modeling Study of Conjugates of ADP and Morpholino Nucleosides as A Novel Class of Inhibitors of PARP-1, PARP-2 and PARP-3. <i>International Journal of Molecular Sciences</i> , 2020, 21, 214.	4.1	10
108	Rational Design of Albumin Theranostic Conjugates for Gold Nanoparticles Anticancer Drugs: Where the Seed Meets the Soil?. <i>Biomedicines</i> , 2021, 9, 74.	3.2	10

#	ARTICLE	IF	CITATIONS
109	Design, Synthesis, and Molecular Docking Study of New Tyrosyl-DNA Phosphodiesterase 1 (TDP1) Inhibitors Combining Resin Acids and Adamantane Moieties. <i>Pharmaceuticals</i> , 2021, 14, 422.	3.8	10
110	The Development of Tyrosyl-DNA Phosphodiesterase 1 (TDP1) Inhibitors Based on the Amines Combining Aromatic/Heteroaromatic and Monoterpenoid Moieties. <i>Letters in Drug Design and Discovery</i> , 2019, 16, 597-605.	0.7	10
111	Three-dimensional structure of phenylalanyl-transfer RNA synthetase from <i>Thermus thermophilus</i> HB8 at 0.6-nm resolution. <i>FEBS Journal</i> , 1992, 208, 411-417.	0.2	9
112	Localization of the large subunit of replication factor C near the 5' end of DNA primers. <i>Journal of Molecular Recognition</i> , 2001, 14, 239-244.	2.1	9
113	Comprehensive analysis of telomerase inhibition by gallotannin. <i>Oncotarget</i> , 2018, 9, 18712-18719.	1.8	9
114	Functional Roles of PARP2 in Assembling Protein-Protein Complexes Involved in Base Excision DNA Repair. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4679.	4.1	9
115	Suppression of base excision repair reactions by apoptotic 24kDa-fragment of poly(ADP-ribose) polymerase 1 in bovine testis nuclear extract. <i>DNA Repair</i> , 2007, 6, 615-625.	2.8	8
116	Inhibition of abasic site cleavage in bubble DNA by multifunctional protein YBp1. <i>Journal of Molecular Recognition</i> , 2015, 28, 117-123.	2.1	8
117	Human Tyrosyl-DNA Phosphodiesterase 1 Possesses Transphosphooligonucleotidation Activity With Primary Alcohols. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 604732.	3.7	8
118	p21CDKN1A Regulates the Binding of Poly(ADP-Ribose) Polymerase-1 to DNA Repair Intermediates. <i>PLoS ONE</i> , 2016, 11, e0146031.	2.5	8
119	New Deoxycholic Acid Derived Tyrosyl-DNA Phosphodiesterase 1 Inhibitors Also Inhibit Tyrosyl-DNA Phosphodiesterase 2. <i>Molecules</i> , 2022, 27, 72.	3.8	8
120	Ku antigen displays the AP lyase activity on a certain type of duplex DNA. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2016, 1864, 1244-1252.	2.3	7
121	Structural basis for the recognition and processing of DNA containing bulky lesions by the mammalian nucleotide excision repair system. <i>DNA Repair</i> , 2018, 61, 86-98.	2.8	7
122	Inhibition of Tyrosyl-DNA Phosphodiesterase 1 by Lipophilic Pyrimidine Nucleosides. <i>Molecules</i> , 2020, 25, 3694.	3.8	7
123	Apurinic/Apyrimidinic Endonuclease 1 and Tyrosyl-DNA Phosphodiesterase 1 Prevent Suicidal Covalent DNA-Protein Crosslink at Apurinic/Apyrimidinic Site. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 617301.	3.7	7
124	Human DNA polymerases catalyze lesion bypass across benzo[a]pyrene-derived DNA adduct clustered with an abasic site. <i>DNA Repair</i> , 2014, 24, 1-9.	2.8	6
125	Pre-steady state kinetics of DNA binding and abasic site hydrolysis by tyrosyl-DNA phosphodiesterase 1. <i>Journal of Biomolecular Structure and Dynamics</i> , 2017, 35, 2314-2327.	3.5	6
126	Strand Displacement Activity of PrimPol. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9027.	4.1	6

#	ARTICLE	IF	CITATIONS
127	Discovery of Novel Sultone Fused Berberine Derivatives as Promising Tdp1 Inhibitors. <i>Molecules</i> , 2021, 26, 1945.	3.8	6
128	Poly(ADP-ribosyl)ation and DNA repair synthesis in the extracts of naked mole rat, mouse, and human cells. <i>Aging</i> , 2019, 11, 2852-2873.	3.1	6
129	Covalent complex of phenylalanyl-tRNA synthetase with 4-thiouridine-substituted tRNAPhe gene transcript retains aminoacylation activity1. <i>FEBS Letters</i> , 1998, 427, 1-4.	2.8	5
130	Processing of the abasic sites clustered with the benzo[a]pyrene adducts by the base excision repair enzymes. <i>DNA Repair</i> , 2017, 50, 43-53.	2.8	5
131	Dehydroabietylamine-based thiazolidin-4-ones and 2-thioxoimidazolidin-4-ones as novel tyrosyl-DNA phosphodiesterase 1 inhibitors. <i>Molecular Diversity</i> , 2021, 25, 2389-2397.	3.9	5
132	Coordination of DNA Base Excision Repair by Protein-Protein Interactions. , 0, , .		5
133	The C-Terminal Domain of Y-Box Binding Protein 1 Exhibits Structure-Specific Binding to Poly(ADP-Ribose), Which Regulates PARP1 Activity. <i>Frontiers in Cell and Developmental Biology</i> , 0, 10, .	3.7	5
134	Interaction of Ddc1 and RPA with single-stranded/double-stranded DNA junctions in yeast whole cell extracts: Proteolytic degradation of the large subunit of replication protein A in ddc1 ^Δ strains. <i>DNA Repair</i> , 2014, 22, 30-40.	2.8	4
135	A versatile strategy for the design and synthesis of novel ADP conjugates and their evaluation as potential poly(ADP-ribose) polymerase 1 inhibitors. <i>Molecular Diversity</i> , 2017, 21, 101-113.	3.9	4
136	Double-Stranded DNA Fragments Bearing Unrepairable Lesions and Their Internalization into Mouse Krebs-2 Carcinoma Cells. <i>Nucleic Acid Therapeutics</i> , 2019, 29, 278-290.	3.6	4
137	Photoreactive DNA as a Tool to Study Replication Protein A Functioning in DNA Replication and Repair. <i>Photochemistry and Photobiology</i> , 2020, 96, 440-449.	2.5	4
138	The Interaction Efficiency of XPD-p44 With Bulky DNA Damages Depends on the Structure of the Damage. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 617160.	3.7	4
139	The genome-wide transcription response to telomerase deficiency in the thermotolerant yeast <i>Hansenula polymorpha</i> DL-1. <i>BMC Genomics</i> , 2017, 18, 492.	2.8	3
140	Study of Interaction of the PARP Family DNA-Dependent Proteins with Nucleosomes Containing DNA Intermediates of the Initial Stages of BER Process. <i>Biochemistry (Moscow)</i> , 2022, 87, 331-345.	1.5	2
141	In Vitro and In Silico Studies of Human Tyrosyl-DNA Phosphodiesterase 1 (Tdp1) Inhibition by Stereoisomeric Forms of Lipophilic Nucleosides: The Role of Carbohydrate Stereochemistry in Ligand-Enzyme Interactions. <i>Molecules</i> , 2022, 27, 2433.	3.8	2
142	Role of YB-1 in Regulation of Poly(ADP-Ribosylation) Catalyzed by Poly(ADP-Ribose) Polymerases. <i>Biochemistry (Moscow)</i> , 2022, 87, S32-S47.	1.5	0
143	Inhibition of the DNA repair enzyme TDP1 by the resin acid derivatives as a new way to increase the efficiency of glioblastoma chemotherapy. <i>AIP Conference Proceedings</i> , 2022, , .	0.4	0