Lari LehtiÃ¶

List of Publications by Year
in descending order

82 papers	2,970 citations	186265 28 h-index	189892 50 g-index
94 all docs	94 docs citations	94 times ranked	3563 citing authors

#	Article	IF	Citations
1	Tankyrases as drug targets. FEBS Journal, 2013, 280, 3576-3593.	4.7	157
2	Tankyrases: Structure, Function and Therapeutic Implications in Cancer. Current Pharmaceutical Design, 2014, 20, 6472-6488.	1.9	153
3	ADPâ€ribosyltransferases, an update on function and nomenclature. FEBS Journal, 2022, 289, 7399-7410.	4.7	150
4	PARP-3 Is a Mono-ADP-ribosylase That Activates PARP-1 in the Absence of DNA. Journal of Biological Chemistry, 2010, 285, 8054-8060.	3.4	135
5	Structural Basis of Selective Inhibition of Human Tankyrases. Journal of Medicinal Chemistry, 2012, 55, 1360-1367.	6.4	125
6	Crystal Structures of the ATPase Domains of Four Human Hsp70 Isoforms: HSPA1L/Hsp70-hom, HSPA2/Hsp70-2, HSPA6/Hsp70B', and HSPA5/BiP/GRP78. PLoS ONE, 2010, 5, e8625.	2.5	123
7	The DEXD/H-box RNA Helicase DDX19 Is Regulated by an Î±-Helical Switch. Journal of Biological Chemistry, 2009, 284, 10296-10300.	3.4	119
8	Comparative Structural Analysis of Lipid Binding START Domains. PLoS ONE, 2011, 6, e19521.	2.5	117
9	Buried Charged Surface in Proteins. Structure, 2000, 8, 1203-1214.	3.3	110
10	Comparative Structural Analysis of Human DEAD-Box RNA Helicases. PLoS ONE, 2010, 5, e12791.	2.5	101
11	Structural Basis for Inhibitor Specificity in Human Poly(ADP-ribose) Polymerase-3. Journal of Medicinal Chemistry, 2009, 52, 3108-3111.	6.4	88
12	Completing the family portrait of the antiâ€apoptotic Bclâ€2 proteins: Crystal structure of human Bflâ€1 in complex with Bim. FEBS Letters, 2008, 582, 3590-3594.	2.8	64
13	The SARS-CoV-2 Nsp3 macrodomain reverses PARP9/DTX3L-dependent ADP-ribosylation induced by interferon signaling. Journal of Biological Chemistry, 2021, 297, 101041.	3.4	61
14	Zinc Binding Catalytic Domain of Human Tankyrase 1. Journal of Molecular Biology, 2008, 379, 136-145.	4.2	56
15	Small-Molecule Chemical Probe Rescues Cells from Mono-ADP-Ribosyltransferase ARTD10/PARP10-Induced Apoptosis and Sensitizes Cancer Cells to DNA Damage. Cell Chemical Biology, 2016, 23, 1251-1260.	5.2	55
16	Screening and Structural Analysis of Flavones Inhibiting Tankyrases. Journal of Medicinal Chemistry, 2013, 56, 3507-3517.	6.4	54
17	Structure of Streptococcus agalactiae serine/threonine phosphatase. FEBS Journal, 2007, 274, 3128-3137.	4.7	50
18	Discovery of Tankyrase Inhibiting Flavones with Increased Potency and Isoenzyme Selectivity. Journal of Medicinal Chemistry, 2013, 56, 7880-7889.	6.4	48

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19	Activity-based assay for human mono-ADP-ribosyltransferases ARTD7/PARP15 and ARTD10/PARP10 aimed at screening and profiling inhibitors. European Journal of Pharmaceutical Sciences, 2013, 49, 148-156.	4.0	47
20	Evaluation and Structural Basis for the Inhibition of Tankyrases by PARP Inhibitors. ACS Medicinal Chemistry Letters, 2014, 5, 18-22.	2.8	47
21	A Trimetal Site and Substrate Distortion in a Family II Inorganic Pyrophosphatase. Journal of Biological Chemistry, 2007, 282, 1422-1431.	3.4	45
22	Homogeneous Screening Assay for Human Tankyrase. Journal of Biomolecular Screening, 2012, 17, 593-604.	2.6	45
23	Structural basis for DNA break recognition by ARTD2/PARP2. Nucleic Acids Research, 2018, 46, 12154-12165.	14.5	45
24	Highly Potent and Isoform Selective Dual Site Binding Tankyrase/Wnt Signaling Inhibitors That Increase Cellular Glucose Uptake and Have Antiproliferative Activity. Journal of Medicinal Chemistry, 2017, 60, 814-820.	6.4	40
25	Structure-based design, synthesis and evaluation in vitro of arylnaphthyridinones, arylpyridopyrimidinones and their tetrahydro derivatives as inhibitors of the tankyrases. Bioorganic and Medicinal Chemistry, 2015, 23, 3013-3032.	3.0	36
26	Characterization of the DNA dependent activation of human ARTD2/PARP2. Scientific Reports, 2016, 6, 34487.	3.3	34
27	Substrate Specificity and Oligomerization of Human GMP Synthetase. Journal of Molecular Biology, 2013, 425, 4323-4333.	4.2	31
28	Structural Studies of Metal Ions in Family II Pyrophosphatases:â€‰ The Requirement for a Janus Ion,. Biochemistry, 2004, 43, 14403-14411.	2.5	30
29	paraâ€Substituted 2â€Phenylâ€3,4â€dihydroquinazolinâ€4â€ones As Potent and Selective Tankyrase Inhibitors. ChemMedChem, 2013, 8, 1978-1985.	3.2	30
30	Discovery of a Novel Series of Tankyrase Inhibitors by a Hybridization Approach. Journal of Medicinal Chemistry, 2017, 60, 10013-10025.	6.4	30
31	Structural studies of tri-functional human GART. Nucleic Acids Research, 2010, 38, 7308-7319.	14.5	28
32	Activation of PARP2/ARTD2 by DNA damage induces conformational changes relieving enzyme autoinhibition. Nature Communications, 2021, 12, 3479.	12.8	28
33	Structural Basis and Selectivity of Tankyrase Inhibition by a Wnt Signaling Inhibitor WIKI4. PLoS ONE, 2013, 8, e65404.	2.5	27
34	A FRET-based high-throughput screening platform for the discovery of chemical probes targeting the scaffolding functions of human tankyrases. Scientific Reports, 2020, 10, 12357.	3.3	27
35	Structural Determination of Functional Domains in Early B-cell Factor (EBF) Family of Transcription Factors Reveals Similarities to Rel DNA-binding Proteins and a Novel Dimerization Motif. Journal of Biological Chemistry, 2010, 285, 25875-25879.	3.4	26
36	Exploration of the nicotinamide-binding site of the tankyrases, identifying 3-arylisoquinolin-1-ones as potent and selective inhibitors in vitro. Bioorganic and Medicinal Chemistry, 2015, 23, 5891-5908.	3.0	26

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37	Discovery of Compounds Inhibiting the ADP-Ribosyltransferase Activity of Pertussis Toxin. ACS Infectious Diseases, 2020, 6, 588-602.	3.8	25
38	Preclinical Lead Optimization of a 1,2,4-Triazole Based Tankyrase Inhibitor. Journal of Medicinal Chemistry, 2020, 63, 6834-6846.	6.4	25
39	A molecular toolbox for ADP-ribosyl binding proteins. Cell Reports Methods, 2021, 1, 100121.	2.9	25
40	Structure-activity relationships of 2-arylquinazolin-4-ones as highly selective and potent inhibitors of the tankyrases. European Journal of Medicinal Chemistry, 2016, 118, 316-327.	5.5	24
41	Crystal Structure of a Glycyl Radical Enzyme from Archaeoglobus fulgidus. Journal of Molecular Biology, 2006, 357, 221-235.	4.2	23
42	Development and structural analysis of adenosine site binding tankyrase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 328-333.	2.2	23
43	4-(Phenoxy) and 4-(benzyloxy)benzamides as potent and selective inhibitors of mono-ADP-ribosyltransferase PARP10/ARTD10. European Journal of Medicinal Chemistry, 2018, 156, 93-102.	5.5	23
44	Structural Basis for Regulation of the Human Acetyl-CoA Thioesterase 12 and Interactions with the Steroidogenic Acute Regulatory Protein-related Lipid Transfer (START) Domain. Journal of Biological Chemistry, 2014, 289, 24263-24274.	3.4	22
45	Structure of theStreptococcus agalactiaefamily II inorganic pyrophosphatase at 2.80â€…Ã… resolution. Acta Crystallographica Section D: Biological Crystallography, 2007, 63, 738-743.	2.5	21
46	Discovery of potent and selective nonplanar tankyrase inhibiting nicotinamide mimics. Bioorganic and Medicinal Chemistry, 2015, 23, 4139-4149.	3.0	21
47	Discovery of compounds that inhibit SARS-CoV-2 Mac1-ADP-ribose binding by high-throughput screening. Antiviral Research, 2022, 203, 105344.	4.1	20
48	Inhibition of poly(ADP-ribose) Polymerase Interferes with Trypanosoma cruzi Infection and Proliferation of the Parasite. PLoS ONE, 2012, 7, e46063.	2.5	19
49	Proximal ADP-ribose Hydrolysis in Trypanosomatids is Catalyzed by a Macrodomain. Scientific Reports, 2016, 6, 24213.	3.3	19
50	Medicinal Chemistry Perspective on Targeting Mono-ADP-Ribosylating PARPs with Small Molecules. Journal of Medicinal Chemistry, 2022, 65, 7532-7560.	6.4	18
51	Structure ofEscherichia colipyruvate formate-lyase with pyruvate. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 2209-2212.	2.5	16
52	2-Phenylquinazolinones as dual-activity tankyrase-kinase inhibitors. Scientific Reports, 2018, 8, 1680.	3.3	16
53	Crystal Structure of the N-terminal NC4 Domain of Collagen IX, a Zinc Binding Member of the Laminin-Neurexin-Sex Hormone Binding Globulin (LNS) Domain Family. Journal of Biological Chemistry, 2007, 282, 23219-23230.	3.4	14
54	Development of a 1,2,4-Triazole-Based Lead Tankyrase Inhibitor: Part II. Journal of Medicinal Chemistry, 2021, 64, 17936-17949.	6.4	14

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55	The Crystal Structure of the Dachshund Domain of Human SnoN Reveals Flexibility in the Putative Protein Interaction Surface. PLoS ONE, 2010, 5, e12907.	2.5	13
56	Disrupted ADP-ribose metabolism with nuclear Poly (ADP-ribose) accumulation leads to different cell death pathways in presence of hydrogen peroxide in procyclic Trypanosoma brucei. Parasites and Vectors, 2016, 9, 173.	2.5	13
57	Development of an Inhibitor Screening Assay for Mono-ADP-Ribosyl Hydrolyzing Macrodomains Using AlphaScreen Technology. SLAS Discovery, 2018, 23, 255-263.	2.7	13
58	IceBear: an intuitive and versatile web application for research-data tracking from crystallization experiment to PDB deposition. Acta Crystallographica Section D: Structural Biology, 2021, 77, 151-163.	2.3	13
59	The structure ofPseudomonasP51 Cl-muconate lactonizing enzyme: Co-evolution of structure and dynamics with the dehalogenation function. Protein Science, 2003, 12, 1855-1864.	7.6	12
60	EU-OPENSCREEN: A Novel Collaborative Approach to Facilitate Chemical Biology. SLAS Discovery, 2019, 24, 398-413.	2.7	12
61	Activity-Based Screening Assay for Mono-ADP-Ribosylhydrolases. SLAS Discovery, 2021, 26, 67-76.	2.7	12
62	Design, synthesis and evaluation of inhibitors of the SARS-CoV-2 nsp3 macrodomain. Bioorganic and Medicinal Chemistry, 2022, 67, 116788.	3.0	11
63	High-resolution Crystal Structure of Human pERp1, A Saposin-like Protein Involved in IgA, IgM and Integrin Maturation in the Endoplasmic Reticulum. Journal of Molecular Biology, 2021, 433, 166826.	4.2	9
64	Adenosine analogs bearing phosphate isosteres as human MDO1 ligands. Bioorganic and Medicinal Chemistry, 2018, 26, 1588-1597.	3.0	8
65	FMN-dependent oligomerization of putative lactate oxidase from Pediococcus acidilactici. PLoS ONE, 2020, 15, e0223870.	2.5	8
66	Assay technologies facilitating drug discovery for ADPâ€ribosyl writers, readers and erasers. BioEssays, 2022, 44, e2100240.	2.5	8
67	Structure and function of the 3-carboxy-cis,cis-muconate lactonizing enzyme from the protocatechuate degradative pathway of Agrobacterium radiobacter S2. FEBS Journal, 2006, 273, 5169-5182.	4.7	7
68	Structural and Biochemical Characterization of Poly-ADP-ribose Polymerase from Trypanosoma brucei. Scientific Reports, 2017, 7, 3642.	3.3	7
69	Analogs of TIQ-A as inhibitors of human mono-ADP-ribosylating PARPs. Bioorganic and Medicinal Chemistry, 2021, 52, 116511.	3.0	7
70	Inhibitor screening assay for neurexin-LRRTM adhesion protein interaction involved in synaptic maintenance and neurological disorders. Analytical Biochemistry, 2019, 587, 113463.	2.4	6
71	The Tankyrase Inhibitor OM-153 Demonstrates Antitumor Efficacy and a Therapeutic Window in Mouse Models. Cancer Research Communications, 2022, 2, 233-245.	1.7	6
72	Unusual twinning in an acetyl coenzyme A synthetase (ADP-forming) fromPyrococcus furiosus. Acta Crystallographica Section D: Biological Crystallography, 2005, 61, 350-354.	2.5	5

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73	Preparation of screening assays for ADP-ribosyl readers and erasers using the GAP-tag as a binding probe. STAR Protocols, 2022, 3, 101147.	1.2	5
74	Potent 2,3-dihydrophthalazine-1,4-dione derivatives as dual inhibitors for mono-ADP-ribosyltransferases PARP10 and PARP15. European Journal of Medicinal Chemistry, 2022, 237, 114362.	5.5	5
75	Evaluation of 3â€•and 4â€Phenoxybenzamides as Selective Inhibitors of the Monoâ€ADPâ€Ribosyltransferase PARP10. ChemistryOpen, 2021, 10, 939-948.	1.9	4
76	Crystallization and preliminary crystallographic analysis of twoStreptococcus agalactiaeproteins: the family II inorganic pyrophosphatase and the serine/threonine phosphatase. Acta Crystallographica Section F: Structural Biology Communications, 2006, 62, 891-894.	0.7	3
77	Derivatives of a PARP Inhibitor TIQ-A through the Synthesis of 8-Alkoxythieno[2,3-c]isoquinolin-5(4H)-ones. ACS Omega, 2020, 5, 13447-13453.	3.5	3
78	Multiple crystal forms of human MacroD2. Acta Crystallographica Section F, Structural Biology Communications, 2020, 76, 477-482.	0.8	3
79	Small-Molecule Screening Assay for Mono-ADP-Ribosyltransferases. Methods in Molecular Biology, 2018, 1813, 237-244.	0.9	2
80	Macrodomain Binding Compound MRS 2578 Inhibits Alphavirus Replication. Antimicrobial Agents and Chemotherapy, 2021, 65, e0139821.	3.2	2
81	The zinc-binding motif in tankyrases is required for the structural integrity of the catalytic ADP-ribosyltransferase domain. Open Biology, 2022, 12, 210365.	3.6	2
82	PARP-3 is a mono-ADP-ribosylase that activates PARP-1 in the absence of DNA.. Journal of Biological Chemistry, 2012, 287, 34494.	3.4	1