Marie-France Langelier

List of Publications by Year
in descending order

26 papers	3,036 citations	279798 23 h-index	552781 26 g-index
28 all docs	28 docs citations	28 times ranked	2723 citing authors

#	Article	IF	Citations
1	Structural Basis for DNA Damageâ€“Dependent Poly(ADP-ribosyl)ation by Human PARP-1. Science, 2012, 336, 728-732.	12.6	525
2	Structural Basis of Detection and Signaling of DNA Single-Strand Breaks by Human PARP-1. Molecular Cell, 2015, 60, 742-754.	9.7	245
3	PARP-1 Activation Requires Local Unfolding of an Autoinhibitory Domain. Molecular Cell, 2015, 60, 755-768.	9.7	244
4	PARP-2 and PARP-3 are selectively activated by 5â€² phosphorylated DNA breaks through an allosteric regulatory mechanism shared with PARP-1. Nucleic Acids Research, 2014, 42, 7762-7775.	14.5	207
5	Crystal Structures of Poly(ADP-ribose) Polymerase-1 (PARP-1) Zinc Fingers Bound to DNA. Journal of Biological Chemistry, 2011, 286, 10690-10701.	3.4	199
6	Structural basis for allosteric PARP-1 retention on DNA breaks. Science, 2020, 368, .	12.6	191
7	PARP-1 mechanism for coupling DNA damage detection to poly(ADP-ribose) synthesis. Current Opinion in Structural Biology, 2013, 23, 134-143.	5.7	169
8	A Third Zinc-binding Domain of Human Poly(ADP-ribose) Polymerase-1 Coordinates DNA-dependent Enzyme Activation. Journal of Biological Chemistry, 2008, 283, 4105-4114.	3.4	166
9	NAD+ analog reveals PARP-1 substrate-blocking mechanism and allosteric communication from catalytic center to DNA-binding domains. Nature Communications, 2018, 9, 844.	12.8	163
10	The Zn3 Domain of Human Poly(ADP-ribose) Polymerase-1 (PARP-1) Functions in Both DNA-dependent Poly(ADP-ribose) Synthesis Activity and Chromatin Compaction. Journal of Biological Chemistry, 2010, 285, 18877-18887.	3.4	140
11	PARP family enzymes: regulation and catalysis of the poly(ADP-ribose) posttranslational modification. Current Opinion in Structural Biology, 2018, 53, 187-198.	5.7	128
12	Poly(ADP-ribose) polymerase-1 antagonizes DNA resection at double-strand breaks. Nature Communications, 2019, 10, 2954.	12.8	122
13	Purification of Human PARP-1 and PARP-1 Domains from Escherichia coli for Structural and Biochemical Analysis. Methods in Molecular Biology, 2011, 780, 209-226.	0.9	81
14	CARM1 regulates replication fork speed and stress response by stimulating PARP1. Molecular Cell, 2021, 81, 784-800.e8.	9.7	61
15	Quantitative site-specific ADP-ribosylation profiling of DNA-dependent PARPs. DNA Repair, 2015, 30, 68-79.	2.8	56
16	Tankyrase-1 Ankyrin Repeats Form an Adaptable Binding Platform for Targets of ADP-Ribose Modification. Structure, 2016, 24, 1679-1692.	3.3	52
17	Clinical PARP inhibitors do not abrogate PARP1 exchange at DNA damage sites in vivo. Nucleic Acids Research, 2020, 48, 9694-9709.	14.5	51
18	Tankyrase Sterile Î± Motif Domain Polymerization Is Required for Its Role in Wnt Signaling. Structure, 2016, 24, 1573-1581.	3.3	40

#	Article	IF	Citations
19	HPF1 dynamically controls the PARP1/2 balance between initiating and elongating ADP-ribose modifications. Nature Communications, 2021, 12, 6675.	12.8	34
20	Dynamics of the HD regulatory subdomain of PARP-1; substrate access and allostery in PARP activation and inhibition. Nucleic Acids Research, 2021, 49, 2266-2288.	14.5	30
21	Unfolding of core nucleosomes by PARP-1 revealed by spFRET microscopy. AIMS Genetics, 2017, 04, 021-031.	1.9	30
22	Purification of DNA Damage-Dependent PARPs from E. coli for Structural and Biochemical Analysis. Methods in Molecular Biology, 2017, 1608, 431-444.	0.9	27
23	Design and Synthesis of Poly(ADP-ribose) Polymerase Inhibitors: Impact of Adenosine Pocket-Binding Motif Appendage to the 3-Oxo-2,3-dihydrobenzofuran-7-carboxamide on Potency and Selectivity. Journal of Medicinal Chemistry, 2019, 62, 5330-5357.	6.4	26
24	Structural and functional analysis of parameters governing tankyrase-1 interaction with telomeric repeat-binding factor 1 and GDP-mannose 4,6-dehydratase. Journal of Biological Chemistry, 2019, 294, 14574-14590.	3.4	17
25	Hydrofluoric Acid-Based Derivatization Strategy To Profile PARP-1 ADP-Ribosylation by LCâ€“MS/MS. Journal of Proteome Research, 2018, 17, 2542-2551.	3.7	15
26	Mechanisms of Nucleosome Reorganization by PARP1. International Journal of Molecular Sciences, 2021, 22, 12127.	4.1	13