Bernhard LÃ¼scher

List of Publications by Year
in descending order

106 papers	8,995 citations	47006 47 h-index	42399 92 g-index
112 all docs	112 docs citations	112 times ranked	11072 citing authors

#	Article	IF	Citations
1	Toward a unified nomenclature for mammalian ADP-ribosyltransferases. Trends in Biochemical Sciences, 2010, 35, 208-219.	7.5	724
2	Proteins of the Myc Network: Essential Regulators of Cell Growth and Differentiation. Advances in Cancer Research, 1996, 68, 109-182.	5.0	687
3	Methylation of histone H3R2 by PRMT6 and H3K4 by an MLL complex are mutually exclusive. Nature, 2007, 449, 933-937.	27.8	402
4	Substrate-Assisted Catalysis by PARP10 Limits Its Activity to Mono-ADP-Ribosylation. Molecular Cell, 2008, 32, 57-69.	9.7	299
5	Regulation of cyclin D2 gene expression by the Myc/Max/Mad network: Myc-dependent TRRAP recruitment and histone acetylation at the cyclin D2 promoter. Genes and Development, 2001, 15, 2042-2047.	5.9	287
6	Macrodomain-containing proteins are new mono-ADP-ribosylhydrolases. Nature Structural and Molecular Biology, 2013, 20, 502-507.	8.2	276
7	Cytokines and the Skin Barrier. International Journal of Molecular Sciences, 2013, 14, 6720-6745.	4.1	250
8	Stimulation of câ€MYC transcriptional activity and acetylation by recruitment of the cofactor CBP. EMBO Reports, 2003, 4, 484-490.	4.5	230
9	IL-31 regulates differentiation and filaggrin expression in human organotypic skin models. Journal of Allergy and Clinical Immunology, 2012, 129, 426-433.e8.	2.9	229
10	The c-MYC oncoprotein, the NAMPT enzyme, the SIRT1-inhibitor DBC1, and the SIRT1 deacetylase form a positive feedback loop. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E187-96.	7.1	226
11	Function and regulation of the transcription factors of the Myc/Max/Mad network. Gene, 2001, 277, 1-14.	2.2	219
12	The Ins and Outs of MYC Regulation by Posttranslational Mechanisms*. Journal of Biological Chemistry, 2006, 281, 34725-34729.	3.4	211
13	The regulation of SIRT2 function by cyclin-dependent kinases affects cell motility. Journal of Cell Biology, 2008, 180, 915-929.	5.2	198
14	ADP-Ribosylation, a Multifaceted Posttranslational Modification Involved in the Control of Cell Physiology in Health and Disease. Chemical Reviews, 2018, 118, 1092-1136.	47.7	186
15	The basic region/helixâ€‰â€"â€‰loopâ€‰â€"â€‰helix/leucine zipper domain of Myc proto-oncoproteins: Function and regulation. Oncogene, 1999, 18, 2955-2966.	5.9	179
16	Signaling by IL-31 and functional consequences. European Journal of Cell Biology, 2012, 91, 552-566.	3.6	171
17	Phosphorylation by Cdk2 is required for Myc to repress Ras-induced senescence in cotransformation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 58-63.	7.1	167
18	ADPâ€ribosyltransferases, an update on function and nomenclature. FEBS Journal, 2022, 289, 7399-7410.	4.7	150

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19	PARP-10, a novel Myc-interacting protein with poly(ADP-ribose) polymerase activity, inhibits transformation. Oncogene, 2005, 24, 1982-1993.	5.9	132
20	Macrodomain-containing proteins: regulating new intracellular functions of mono(ADP-ribosyl)ation. Nature Reviews Molecular Cell Biology, 2013, 14, 443-451.	37.0	130
21	Regulation of NF-Î°B signalling by the mono-ADP-ribosyltransferase ARTD10. Nature Communications, 2013, 4, 1683.	12.8	128
22	The conserved macrodomains of the non-structural proteins of Chikungunya virus and other pathogenic positive strand RNA viruses function as mono-ADP-ribosylhydrolases. Scientific Reports, 2017, 7, 41746.	3.3	119
23	Regulation of gene transcription by the oncoprotein MYC. Gene, 2012, 494, 145-160.	2.2	118
24	Regulation of Sirtuin Function by Posttranslational Modifications. Frontiers in Pharmacology, 2012, 3, 29.	3.5	112
25	ARTD10 substrate identification on protein microarrays: regulation of GSK3Î² by mono-ADP-ribosylation. Cell Communication and Signaling, 2013, 11, 5.	6.5	110
26	Interaction of the fork head domain transcription factor MPP2 with the human papilloma virus 16 E7 protein: enhancement of transformation and transactivation. Oncogene, 1999, 18, 5620-5630.	5.9	107
27	Recognition of Mono-ADP-Ribosylated ARTD10 Substrates by ARTD8 Macrodomains. Structure, 2013, 21, 462-475.	3.3	107
28	Cell growth inhibition by the Mad/Max complex through recruitment of histone deacetylase activity. Current Biology, 1997, 7, 357-365.	3.9	102
29	Identification and Characterization of Specific DNA-binding Complexes Containing Members of the Myc/Max/Mad Network of Transcriptional Regulators. Journal of Biological Chemistry, 1998, 273, 6632-6642.	3.4	100
30	Targeting of the transcription factor Max during apoptosis: phosphorylation-regulated cleavage by caspase-5 at an unusual glutamic acid residue in position P1. Biochemical Journal, 2001, 358, 705-715.	3.7	100
31	Biosynthesis of casein kinase II in lymphoid cell lines. FEBS Journal, 1994, 220, 521-526.	0.2	98
32	The psoriasis-associated IL-17A induces and cooperates with IL-36 cytokines to control keratinocyte differentiation and function. Scientific Reports, 2017, 7, 15631.	3.3	94
33	H3K4 dimethylation in hepatocellular carcinoma is rare compared with other hepatobiliary and gastrointestinal carcinomas and correlates with expression of the methylase Ash2 and the demethylase LSD1. Human Pathology, 2010, 41, 181-189.	2.0	93
34	A Peptide-Based Target Screen Implicates the Protein Kinase CK2 in the Global Regulation of Caspase Signaling. Science Signaling, 2011, 4, ra30.	3.6	88
35	YY1 can inhibit c-Myc function through a mechanism requiring DNA binding of YY1 but neither its transactivation domain nor direct interaction with c-Myc. Oncogene, 1998, 17, 511-520.	5.9	83
36	Intracellular Mono-ADP-Ribosylation in Signaling and Disease. Cells, 2015, 4, 569-595.	4.1	82

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37	Modes of Interaction of KMT2 Histone H3 Lysine 4 Methyltransferase/COMPASS Complexes with Chromatin. Cells, 2018, 7, 17.	4.1	79
38	Targeting of the transcription factor Max during apoptosis: phosphorylation-regulated cleavage by caspase-5 at an unusual glutamic acid residue in position P1. Biochemical Journal, 2001, 358, 705.	3.7	76
39	A Human T-Cell Lymphotropic Virus Type 1 Enhancer of Myc Transforming Potential Stabilizes Myc-TIP60 Transcriptional Interactions. Molecular and Cellular Biology, 2005, 25, 6178-6198.	2.3	70
40	The Human Trithorax Protein hASH2 Functions as an Oncoprotein. Cancer Research, 2008, 68, 749-758.	0.9	69
41	Expanding functions of intracellular resident monoâ€<scp>ADP</scp>â€ribosylation in cell physiology. FEBS Journal, 2013, 280, 3519-3529.	4.7	67
42	Regulation of the transcription factor FOXM1c by Cyclin E/CDK2. FEBS Letters, 2006, 580, 1716-1722.	2.8	62
43	Control of the Physical and Antimicrobial Skin Barrier by an IL-31â€"IL-1 Signaling Network. Journal of Immunology, 2016, 196, 3233-3244.	0.8	59
44	Analysis of Myc/Max/Mad network members in adipogenesis: Inhibition of the proliferative burst and differentiation by ectopically expressed Mad1. Journal of Cellular Physiology, 2000, 183, 399-410.	4.1	58
45	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
46	IÎºB kinaseÎ±/Î² control biliary homeostasis and hepatocarcinogenesis in mice by phosphorylating the cellâ€death mediator receptorâ€interacting protein kinase 1. Hepatology, 2016, 64, 1217-1231.	7.3	54
47	Dynamic subcellular localization of the mono-ADP-ribosyltransferase ARTD10 and interaction with the ubiquitin receptor p62. Cell Communication and Signaling, 2012, 10, 28.	6.5	50
48	Caspaseâ€dependent cleavage of the monoâ€<scp>ADP</scp>â€ribosyltransferase <scp>ARTD</scp>10 interferes with its proâ€apoptotic function. FEBS Journal, 2013, 280, 1330-1343.	4.7	49
49	Engineering Af1521 improves ADP-ribose binding and identification of ADP-ribosylated proteins. Nature Communications, 2020, 11, 5199.	12.8	49
50	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
51	The interaction of MYC with the trithorax protein ASH2L promotes gene transcription by regulating H3K27 modification. Nucleic Acids Research, 2014, 42, 6901-6920.	14.5	47
52	ADP-ribosylation of RNA and DNA: from<i>in vitro</i>characterization to<i>in vivo</i>function. Nucleic Acids Research, 2021, 49, 3634-3650.	14.5	47
53	Myc/Max/Mad regulate the frequency but not the duration of productive cell cycles. EMBO Reports, 2001, 2, 1125-1132.	4.5	46
54	Inhibition of Proliferation and Apoptosis by the Transcriptional Repressor Mad1. Journal of Biological Chemistry, 2000, 275, 10413-10420.	3.4	43

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55	Learning How to Read ADP-Ribosylation. Cell, 2009, 139, 17-19.	28.9	43
56	The Mad1 transcription factor is a novel target of activin and TGF-Î² action in keratinocytes: possible role of Mad1 in wound repair and psoriasis. Oncogene, 2001, 20, 7494-7504.	5.9	40
57	PARP10 (ARTD10) modulates mitochondrial function. PLoS ONE, 2018, 13, e0187789.	2.5	40
58	JAK1/3 inhibition preserves epidermal morphology in fullâ€thickness 3D skin models of atopic dermatitis and psoriasis. Journal of the European Academy of Dermatology and Venereology, 2019, 33, 367-375.	2.4	39
59	Analysis of the DNA-binding activities of Myc/Max/Mad network complexes during induced differentiation of U-937 monoblasts and F9 teratocarcinoma cells. Oncogene, 1997, 15, 737-748.	5.9	38
60	Players in ADP-ribosylation: Readers and Erasers. Current Protein and Peptide Science, 2016, 17, 654-667.	1.4	37
61	MAD1 and its life as a MYC antagonist: An update. European Journal of Cell Biology, 2012, 91, 506-514.	3.6	36
62	Inhibition of SIRT2 suppresses hepatic fibrosis. American Journal of Physiology - Renal Physiology, 2016, 310, G1155-G1168.	3.4	35
63	Nucleolar-nucleoplasmic shuttling of TARG1 and its control by DNA damage-induced poly-ADP-ribosylation and by nucleolar transcription. Scientific Reports, 2018, 8, 6748.	3.3	32
64	Targeted Inactivation of a Developmentally Regulated Neural Plectin Isoform (Plectin 1c) in Mice Leads to Reduced Motor Nerve Conduction Velocity. Journal of Biological Chemistry, 2009, 284, 26502-26509.	3.4	31
65	Effects of a ceramideâ€containing waterâ€inâ€oil ointment on skin barrier function and allergen penetration in an <scp>IL</scp>â€31 treated 3D model of the disrupted skin barrier. Experimental Dermatology, 2018, 27, 1009-1014.	2.9	30
66	Caspase-8-mediated PAR-4 cleavage is required for TNFÎ±-induced apoptosis. Oncotarget, 2014, 5, 2988-2998.	1.8	30
67	Phosphorylation of the Transcription Factor YY1 by CK2<i>Î±</i> Prevents Cleavage by Caspase 7 during Apoptosis. Molecular and Cellular Biology, 2012, 32, 797-807.	2.3	29
68	Analysis of the max-binding protein MNT in human medulloblastomas. , 1999, 82, 810-816.		26
69	Repression of in vivo growth of Myc/Ras transformed tumor cells by Mad1. Oncogene, 2002, 21, 447-459.	5.9	26
70	Function and Regulation of the Mono-ADP-Ribosyltransferase ARTD10. Current Topics in Microbiology and Immunology, 2014, 384, 167-188.	1.1	26
71	AMPK-dependent activation of the Cyclin Y/CDK16 complex controls autophagy. Nature Communications, 2020, 11, 1032.	12.8	25
72	Hematopoietic stem and progenitor cell proliferation and differentiation requires the trithorax protein Ash2l. Scientific Reports, 2019, 9, 8262.	3.3	24

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73	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
74	ING5 Is Phosphorylated by CDK2 and Controls Cell Proliferation Independently of p53. PLoS ONE, 2015, 10, e0123736.	2.5	20
75	Sulfoximines as ATR inhibitors: Analogs of VE-821. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 2659-2662.	2.2	19
76	The human T-cell leukemia virus type-1 p30II protein activates p53 and induces the TIGAR and suppresses oncogene-induced oxidative stress during viral carcinogenesis. Virology, 2018, 518, 103-115.	2.4	17
77	Enhanced Sampling Approach to the Induced-Fit Docking Problem in Proteinâ€“Ligand Binding: The Case of Mono-ADP-Ribosylation Hydrolase Inhibitors. Journal of Chemical Theory and Computation, 2021, 17, 7899-7911.	5.3	17
78	PAR-4 overcomes chemo-resistance in breast cancer cells by antagonizing cIAP1. Scientific Reports, 2019, 9, 8755.	3.3	16
79	Mad1 Function in Cell Proliferation and Transcriptional Repression Is Antagonized by Cyclin E/CDK2. Journal of Biological Chemistry, 2005, 280, 15489-15492.	3.4	15
80	GAR22Î² regulates cell migration, sperm motility, and axoneme structure. Molecular Biology of the Cell, 2016, 27, 277-294.	2.1	15
81	Acetylation of the c-MYC oncoprotein is required for cooperation with the HTLV-1 p30 II accessory protein and the induction of oncogenic cellular transformation by p30 II /c-MYC. Virology, 2015, 476, 271-288.	2.4	14
82	Molecular Simulation-Based Structural Prediction of Protein Complexes in Mass Spectrometry: The Human Insulin Dimer. PLoS Computational Biology, 2014, 10, e1003838.	3.2	13
83	Assessment of Intracellular Auto-Modification Levels of ARTD10 Using Mono-ADP-Ribose-Specific Macrodomains 2 and 3 of Murine Artd8. Methods in Molecular Biology, 2018, 1813, 41-63.	0.9	13
84	Cetuximab Induces Eme1-Mediated DNA Repair: a Novel Mechanism for Cetuximab Resistance. Neoplasia, 2014, 16, 207-220.e4.	5.3	12
85	The search for inhibitors of macrodomains for targeting the readers and erasers of mono-ADP-ribosylation. Drug Discovery Today, 2021, 26, 2547-2558.	6.4	12
86	Interferon-Î³-induced p27KIP1 binds to and targets MYC for proteasome-mediated degradation. Oncotarget, 2016, 7, 2837-2854.	1.8	12
87	Insight into the Mechanism of Intramolecular Inhibition of the Catalytic Activity of Sirtuin 2 (SIRT2). PLoS ONE, 2015, 10, e0139095.	2.5	11
88	Intramolecular hydrophobic interactions are critical mediators of STAT5 dimerization. Scientific Reports, 2016, 6, 35454.	3.3	11
89	Endotoxin tolerance in mast cells, its consequences for IgE-mediated signalling, and the effects of BCL3 deficiency. Scientific Reports, 2017, 7, 4534.	3.3	11
90	Regulation of the MAD1 promoter by G-CSF. Nucleic Acids Research, 2008, 36, 1517-1531.	14.5	10

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91	Studying the Role of AMPK in Autophagy. Methods in Molecular Biology, 2018, 1732, 373-391.	0.9	9
92	Inhibition of apoptosis by MAD1 is mediated by repression of the <i>PTEN</i> tumor suppressor gene. FASEB Journal, 2008, 22, 1124-1134.	0.5	7
93	Intracellular mono-ADP-ribosyltransferases at the hostâ€"virus interphase. Cellular and Molecular Life Sciences, 2022, 79, 288.	5.4	7
94	Overlap of the gene encoding the novel poly(ADP-ribose) polymerase Parp10 with the plectin 1 gene and common use of exon sequences. Genomics, 2005, 86, 38-46.	2.9	6
95	TGFÎ²1 enhances MAD1 expression and stimulates promoter-bound Pol II phosphorylation: basic functions of C/EBP, SP and SMAD3 transcription factors. BMC Molecular Biology, 2011, 12, 9.	3.0	6
96	Bacterial Growth Inhibition Screen (BGIS): harnessing recombinant protein toxicity for rapid and unbiased interrogation of protein function. FEBS Letters, 2021, 595, 1422-1437.	2.8	6
97	Induction of senescence upon loss of the Ash2l core subunit of H3K4 methyltransferase complexes. Nucleic Acids Research, 2022, 50, 7889-7905.	14.5	6
98	Structural prediction of the interaction of the tumor suppressor p27KIP1 with cyclin A/CDK2 identifies a novel catalytically relevant determinant. BMC Bioinformatics, 2017, 18, 15.	2.6	5
99	ARTD10/PARP10 Induces ADP-Ribosylation of GAPDH and Recruits GAPDH into Cytosolic Membrane-Free Cell Bodies When Overexpressed in Mammalian Cells. Challenges, 2018, 9, 22.	1.7	5
100	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
101	The mono-ADP-ribosyltransferase ARTD10 regulates the voltage-gated K+ channel Kv1.1 through protein kinase C delta. BMC Biology, 2020, 18, 143.	3.8	4
102	The CCNY (cyclin Y)-CDK16 kinase complex: a new regulator of autophagy downstream of AMPK. Autophagy, 2020, 16, 1724-1726.	9.1	4
103	Bacterial Growth Inhibition Screen (BGIS) identifies a lossâ€ofâ€function mutant of the DEK oncogene, indicating DNA modulating activities of DEK in chromatin. FEBS Letters, 2021, 595, 1438-1453.	2.8	4
104	Evaluation of 3â€•and 4â€Phenoxybenzamides as Selective Inhibitors of the Monoâ€ADPâ€Ribosyltransferase PARP10. ChemistryOpen, 2021, 10, 939-948.	1.9	4
105	Establishment of an Intradermal Ear Injection Model of IL-17A and IL-36Î³ as a Tool to Investigate the Psoriatic Cytokine Network. Life, 2021, 11, 846.	2.4	1
106	Phosphorylation during mitosis: How many kinases are out there?. Cell Cycle, 2011, 10, 3821-3821.	2.6	0