W Lee Kraus

List of Publications by Citations

125 papers	12,156 citations	59 h-index	110 g-index
142 ext. papers	14,028 ext. citations	13.4 avg, IF	7.04 L-index

#	Paper	IF	Citations
125	New insights into the molecular and cellular functions of poly(ADP-ribose) and PARPs. *Nature Reviews Molecular Cell Biology*, **2012**, 13, 411-24	48.7	811
124	The PARP side of the nucleus: molecular actions, physiological outcomes, and clinical targets. *Molecular Cell*, **2010**, 39, 8-24	17.6	631
123	Poly(ADP-ribosyl)ation by PARP-1: PAR-laying NAD+ into a nuclear signal. *Genes and Development*, **2005**, 19, 1951-67	12.6	612
122	On PAR with PARP: cellular stress signaling through poly(ADP-ribose) and PARP-1. *Genes and Development*, **2012**, 26, 417-32	12.6	490
121	NAD+-dependent modulation of chromatin structure and transcription by nucleosome binding properties of PARP-1. *Cell*, **2004**, 119, 803-14	56.2	437
120	PARP goes transcription. *Cell*, **2003**, 113, 677-83	56.2	435
119	A rapid, extensive, and transient transcriptional response to estrogen signaling in breast cancer cells. *Cell*, **2011**, 145, 622-34	56.2	377
118	PARPs and ADP-ribosylation: recent advances linking molecular functions to biological outcomes. *Genes and Development*, **2017**, 31, 101-126	12.6	354
117	Enhancer transcripts mark active estrogen receptor binding sites. *Genome Research*, **2013**, 23, 1210-23	9.7	339
116	Transcriptional control by PARP-1: chromatin modulation, enhancer-binding, coregulation, and insulation. *Current Opinion in Cell Biology*, **2008**, 20, 294-302	9	321
115	Reciprocal binding of PARP-1 and histone H1 at promoters specifies transcriptional outcomes. *Science*, **2008**, 319, 819-21	33.3	308
114	From discovery to function: the expanding roles of long noncoding RNAs in physiology and disease. *Endocrine Reviews*, **2015**, 36, 25-64	27.2	274
113	Signaling pathways differentially affect RNA polymerase II initiation, pausing, and elongation rate in cells. *Molecular Cell*, **2013**, 50, 212-22	17.6	231
112	PARP-1 regulates chromatin structure and transcription through a KDM5B-dependent pathway. *Molecular Cell*, **2010**, 39, 736-49	17.6	230
111	Chemical genetic discovery of PARP targets reveals a role for PARP-1 in transcription elongation. *Science*, **2016**, 353, 45-50	33.3	225
110	SIRT1-dependent regulation of chromatin and transcription: linking NAD(+) metabolism and signaling to the control of cellular functions. *Biochimica Et Biophysica Acta - Proteins and Proteomics* , **2010**, 1804, 1666-75	4	204
109	Biochemical analysis of distinct activation functions in p300 that enhance transcription initiation with chromatin templates. *Molecular and Cellular Biology*, **1999**, 19, 8123-35	4.8	204

108	Regulation of coactivator complex assembly and function by protein arginine methylation and demethylimination. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 3611-6	11.5	186
107	PARP-1 and gene regulation: progress and puzzles. *Molecular Aspects of Medicine*, **2013**, 34, 1109-23	16.7	183
106	Global analysis of p53-regulated transcription identifies its direct targets and unexpected regulatory mechanisms. *ELife*, **2014**, 3, e02200	8.9	175
105	Enzymes in the NAD+ salvage pathway regulate SIRT1 activity at target gene promoters. *Journal of Biological Chemistry*, **2009**, 284, 20408-17	5.4	173
104	Genomic analyses of transcription factor binding, histone acetylation, and gene expression reveal mechanistically distinct classes of estrogen-regulated promoters. *Molecular and Cellular Biology*, **2007**, 27, 5090-104	4.8	166
103	Acetylation of estrogen receptor alpha by p300 at lysines 266 and 268 enhances the deoxyribonucleic acid binding and transactivation activities of the receptor. *Molecular Endocrinology*, **2006**, 20, 1479-93		165
102	Genome-wide analysis of estrogen receptor alpha DNA binding and tethering mechanisms identifies Runx1 as a novel tethering factor in receptor-mediated transcriptional activation. *Molecular and Cellular Biology*, **2010**, 30, 3943-55	4.8	157
101	Specific contributions of histone tails and their acetylation to the mechanical stability of nucleosomes. *Journal of Molecular Biology*, **2005**, 346, 135-46	6.5	152
100	Discovery, Annotation, and Functional Analysis of Long Noncoding RNAs Controlling Cell-Cycle Gene Expression and Proliferation in Breast Cancer Cells. *Molecular Cell*, **2015**, 59, 698-711	17.6	137
99	The histone variant macroH2A1 marks repressed autosomal chromatin, but protects a subset of its target genes from silencing. *Genes and Development*, **2010**, 24, 21-32	12.6	119
98	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, 18877-87	5.4	113
97	Identification of active transcriptional regulatory elements from GRO-seq data. *Nature Methods*, **2015**, 12, 433-8	21.6	112
96	Metabolic regulation of transcription through compartmentalized NAD biosynthesis. *Science*, **2018**, 360,	33.3	111
95	The DNA binding and catalytic domains of poly(ADP-ribose) polymerase 1 cooperate in the regulation of chromatin structure and transcription. *Molecular and Cellular Biology*, **2007**, 27, 7475-85	4.8	111
94	Smads orchestrate specific histone modifications and chromatin remodeling to activate transcription. *EMBO Journal*, **2006**, 25, 4490-502	13	109
93	PARPs and ADP-Ribosylation: 50 Years and Counting. *Molecular Cell*, **2015**, 58, 902-10	17.6	99
92	Clickable NAD analogues for labeling substrate proteins of poly(ADP-ribose) polymerases. *Journal of the American Chemical Society*, **2010**, 132, 9363-72	16.4	98
91	TNF signaling exposes latent estrogen receptor binding sites to alter the breast cancer cell transcriptome. *Molecular Cell*, **2015**, 58, 21-34	17.6	96

90	Estrogen-regulated gene networks in human breast cancer cells: involvement of E2F1 in the regulation of cell proliferation. *Molecular Endocrinology*, **2007**, 21, 2112-23		96
89	Global analysis of transcriptional regulation by poly(ADP-ribose) polymerase-1 and poly(ADP-ribose) glycohydrolase in MCF-7 human breast cancer cells. *Journal of Biological Chemistry*, **2009**, 284, 33926-38	5.4	93
88	The phosphorylation status of a cyclic AMP-responsive activator is modulated via a chromatin-dependent mechanism. *Molecular and Cellular Biology*, **2000**, 20, 1596-603	4.8	91
87	Poly(ADP-ribose) polymerase 1 is inhibited by a histone H2A variant, MacroH2A, and contributes to silencing of the inactive X chromosome. *Journal of Biological Chemistry*, **2007**, 282, 12851-9	5.4	90
86	New facets in the regulation of gene expression by ADP-ribosylation and poly(ADP-ribose) polymerases. *Chemical Reviews*, **2015**, 115, 2453-81	68.1	89
85	Activation of PARP-1 by snoRNAs Controls Ribosome Biogenesis and Cell Growth via the RNA Helicase DDX21. *Molecular Cell*, **2019**, 75, 1270-1285.e14	17.6	88
84	Ready, pause, go: regulation of RNA polymerase II pausing and release by cellular signaling pathways. *Trends in Biochemical Sciences*, **2015**, 40, 516-25	10.3	85
83	p300 forms a stable, template-committed complex with chromatin: role for the bromodomain. *Molecular and Cellular Biology*, **2001**, 21, 3876-87	4.8	82
82	A global view of transcriptional regulation by nuclear receptors: gene expression, factor localization, and DNA sequence analysis. *Nuclear Receptor Signaling*, **2008**, 6, e005	1	77
81	Regulation of poly(ADP-ribose) polymerase-1-dependent gene expression through promoter-directed recruitment of a nuclear NAD+ synthase. *Journal of Biological Chemistry*, **2012**, 287, 12405-16	5.4	76
80	Mediator and p300/CBP-steroid receptor coactivator complexes have distinct roles, but function synergistically, during estrogen receptor alpha-dependent transcription with chromatin templates. *Molecular and Cellular Biology*, **2003**, 23, 335-48	4.8	73
79	Postrecruitment regulation of RNA polymerase II directs rapid signaling responses at the promoters of estrogen target genes. *Molecular and Cellular Biology*, **2009**, 29, 1123-33	4.8	70
78	Genome-wide analysis reveals PADI4 cooperates with Elk-1 to activate c-Fos expression in breast cancer cells. *PLoS Genetics*, **2011**, 7, e1002112	6	70
77	A novel Arabidopsis acetyltransferase interacts with the geminivirus movement protein NSP. *Plant Cell*, **2003**, 15, 1605-18	11.6	69
76	PARP Inhibitors for Cancer Therapy. *Cell*, **2017**, 169, 183	56.2	68
75	Multiple facets of the unique histone variant macroH2A: from genomics to cell biology. *Cell Cycle*, **2010**, 9, 2568-74	4.7	68
74	Hormone-regulated transcriptomes: lessons learned from estrogen signaling pathways in breast cancer cells. *Molecular and Cellular Endocrinology*, **2014**, 382, 652-664	4.4	67
73	Isoflavones stimulate estrogen receptor-mediated core histone acetylation. *Biochemical and Biophysical Research Communications*, **2004**, 317, 259-64	3.4	67

72	Catalytic-Independent Functions of PARP-1 Determine Sox2 Pioneer Activity at Intractable Genomic Loci. *Molecular Cell*, **2017**, 65, 589-603.e9	17.6	66
71	Genomic analyses of hormone signaling and gene regulation. *Annual Review of Physiology*, **2010**, 72, 191-218	23.1	66
70	Enhancer transcription reveals subtype-specific gene expression programs controlling breast cancer pathogenesis. *Genome Research*, **2018**, 28, 159-170	9.7	65
69	PARP-1 Controls the Adipogenic Transcriptional Program by PARylating C/EBP and Modulating Its Transcriptional Activity. *Molecular Cell*, **2017**, 65, 260-271	17.6	59
68	MYBBP1a is a novel repressor of NF-kappaB. *Journal of Molecular Biology*, **2007**, 366, 725-36	6.5	59
67	Nuclear receptor-dependent transcription with chromatin. Is it all about enzymes?. *FEBS Journal*, **2002**, 269, 2275-83		59
66	Nuclear receptors, coactivators and chromatin: new approaches, new insights. *Trends in Endocrinology and Metabolism*, **2001**, 12, 191-7	8.8	59
65	Generation and Characterization of Recombinant Antibody-like ADP-Ribose Binding Proteins. *Biochemistry*, **2017**, 56, 6305-6316	3.2	56
64	Altered pharmacology and distinct coactivator usage for estrogen receptor-dependent transcription through activating protein-1. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 559-64	11.5	55
63	Selective recognition of distinct classes of coactivators by a ligand-inducible activation domain. *Molecular Cell*, **2004**, 13, 725-38	17.6	53
62	p300-mediated tax transactivation from recombinant chromatin: histone tail deletion mimics coactivator function. *Molecular and Cellular Biology*, **2002**, 22, 127-37	4.8	53
61	PARPs and ADP-ribosylation in RNA biology: from RNA expression and processing to protein translation and proteostasis. *Genes and Development*, **2020**, 34, 302-320	12.6	46
60	The role of the C-terminal extension (CTE) of the estrogen receptor alpha and beta DNA binding domain in DNA binding and interaction with HMGB. *Journal of Biological Chemistry*, **2004**, 279, 14763-71	5.4	44
59	Transcriptional activation by nuclear receptors. *Essays in Biochemistry*, **2004**, 40, 73-88	7.6	41
58	Multiple sequence-specific DNA-binding proteins mediate estrogen receptor signaling through a tethering pathway. *Molecular Endocrinology*, **2011**, 25, 564-74		40
57	Linking the aryl hydrocarbon receptor with altered DNA methylation patterns and developmentally induced aberrant antiviral CD8+ T cell responses. *Journal of Immunology*, **2015**, 194, 4446-57	5.3	38
56	Dynamic evolution of regulatory element ensembles in primate CD4 T cells. *Nature Ecology and Evolution*, **2018**, 2, 537-548	12.3	38
55	Minireview: Long noncoding RNAs: new "links" between gene expression and cellular outcomes in endocrinology. *Molecular Endocrinology*, **2013**, 27, 1390-402		38

54	groHMM: a computational tool for identifying unannotated and cell type-specific transcription units from global run-on sequencing data. *BMC Bioinformatics*, **2015**, 16, 222	3.6	37
53	Histone modification profiling in breast cancer cell lines highlights commonalities and differences among subtypes. *BMC Genomics*, **2018**, 19, 150	4.5	36
52	Dynamic assembly and activation of estrogen receptor enhancers through coregulator switching. *Genes and Development*, **2017**, 31, 1535-1548	12.6	35
51	Chromatin exposes intrinsic differences in the transcriptional activities of estrogen receptors alpha and beta. *EMBO Journal*, **2003**, 22, 600-11	13	35
50	A role for BAF57 in cell cycle-dependent transcriptional regulation by the SWI/SNF chromatin remodeling complex. *Cancer Research*, **2010**, 70, 4402-11	10.1	34
49	Dynamic reorganization of the AC16 cardiomyocyte transcriptome in response to TNF signaling revealed by integrated genomic analyses. *BMC Genomics*, **2014**, 15, 155	4.5	32
48	Histone H1 represses estrogen receptor alpha transcriptional activity by selectively inhibiting receptor-mediated transcription initiation. *Molecular and Cellular Biology*, **2002**, 22, 2463-71	4.8	32
47	Alternate therapeutic pathways for PARP inhibitors and potential mechanisms of resistance. *Experimental and Molecular Medicine*, **2021**, 53, 42-51	12.8	32
46	Location, Location, Location: Compartmentalization of NAD Synthesis and Functions in Mammalian Cells. *Trends in Biochemical Sciences*, **2020**, 45, 858-873	10.3	30
45	ADP-ribosyltransferases, an update on function and nomenclature. *FEBS Journal*, **2021**,	5.7	30
44	Transcriptional activation by thyroid hormone receptor-beta involves chromatin remodeling, histone acetylation, and synergistic stimulation by p300 and steroid receptor coactivators. *Molecular Endocrinology*, **2003**, 17, 908-22		28
43	miR-200 Regulates Endometrial Development During Early Pregnancy. *Molecular Endocrinology*, **2016**, 30, 977-87		27
42	No driver behind the wheel? Targeting transcription in cancer. *Cell*, **2015**, 163, 28-30	56.2	21
41	Promoter cleavage: a topoIIbeta and PARP-1 collaboration. *Cell*, **2006**, 125, 1225-7	56.2	21
40	MARTs and MARylation in the Cytosol: Biological Functions, Mechanisms of Action, and Therapeutic Potential. *Cells*, **2021**, 10,	7.9	19
39	Transcriptome signature identifies distinct cervical pathways induced in lipopolysaccharide-mediated preterm birth. *Biology of Reproduction*, **2018**, 98, 408-421	3.9	18
38	Development of a stable dual cell-line GFP expression system to study estrogenic endocrine disruptors. *Biotechnology and Bioengineering*, **2008**, 101, 1276-87	4.9	18
37	SMARCAD1 is an ATP-dependent stimulator of nucleosomal H2A acetylation via CBP, resulting in transcriptional regulation. *Scientific Reports*, **2016**, 6, 20179	4.9	18

36	Identification of a novel transferable cis element in the promoter of an estrogen-responsive gene that modulates sensitivity to hormone and antihormone. *Molecular Endocrinology*, **1997**, 11, 330-41		17
35	The histone variant MacroH2A1 regulates target gene expression in part by recruiting the transcriptional coregulator PELP1. *Molecular and Cellular Biology*, **2014**, 34, 2437-49	4.8	16
34	A one and a two expanding roles for poly(ADP-ribose) polymerases in metabolism. *Cell Metabolism*, **2011**, 13, 353-355	24.6	16
33	Functional Interplay between Histone H2B ADP-Ribosylation and Phosphorylation Controls Adipogenesis. *Molecular Cell*, **2020**, 79, 934-949.e14	17.6	16
32	Estrogen regulates JNK1 genomic localization to control gene expression and cell growth in breast cancer cells. *Molecular Endocrinology*, **2012**, 26, 736-47		14
31	ADP-Ribosylation Levels and Patterns Correlate with Gene Expression and Clinical Outcomes in Ovarian Cancers. *Molecular Cancer Therapeutics*, **2020**, 19, 282-291	6.1	14
30	Identification of PARP-7 substrates reveals a role for MARylation in microtubule control in ovarian cancer cells. *ELife*, **2021**, 10,	8.9	14
29	Specific Binding of snoRNAs to PARP-1 Promotes NAD-Dependent Catalytic Activation. *Biochemistry*, **2020**, 59, 1559-1564	3.2	12
28	Distinct Roles for BET Family Members in Estrogen Receptor Enhancer Function and Gene Regulation in Breast Cancer Cells. *Molecular Cancer Research*, **2019**, 17, 2356-2368	6.6	12
27	Identification of Protein Substrates of Specific PARP Enzymes Using Analog-Sensitive PARP Mutants and a "Clickable" NAD Analog. *Methods in Molecular Biology*, **2017**, 1608, 111-135	1.4	12
26	Mapping ER genomic binding sites reveals unique genomic features and identifies EBF1 as an ER interactor. *PLoS ONE*, **2013**, 8, e71355	3.7	11
25	Ribosome ADP-ribosylation inhibits translation and maintains proteostasis in cancers. *Cell*, **2021**, 184, 4531-4546.e26	56.2	11
24	Small molecules, big effects: a role for chromatin-localized metabolite biosynthesis in gene regulation. *Molecular Cell*, **2011**, 41, 497-9	17.6	10
23	Visualizing the histone code on LSD1. *Cell*, **2007**, 128, 433-4	56.2	10
22	Spirits in the Material World: Enhancer RNAs in Transcriptional Regulation. *Trends in Biochemical Sciences*, **2021**, 46, 138-153	10.3	10
21	Computational Approaches for Mining GRO-Seq Data to Identify and Characterize Active Enhancers. *Methods in Molecular Biology*, **2017**, 1468, 121-38	1.4	9
20	PARPs in lipid metabolism and related diseases. *Progress in Lipid Research*, **2021**, 84, 101117	14.3	9
19	Generating Protein-Linked and Protein-Free Mono-, Oligo-, and Poly(ADP-Ribose) In Vitro. *Methods in Molecular Biology*, **2018**, 1813, 91-108	1.4	6

18	Nuclear ADP-ribosylation drives IFN□dependent STAT1□enhancer formation in macrophages. *Nature Communications*, **2021**, 12, 3931	17.4	6
17	Activation of estrogen receptor □by raloxifene through an activating protein-1-dependent tethering mechanism in human cervical epithelial cancer cells: a role for c-Jun N-terminal kinase. *Molecular and Cellular Endocrinology*, **2012**, 348, 331-8	4.4	4
16	Genome-wide analysis and functional prediction of the estrogen-regulated transcriptional response in the mouse uterus□*Biology of Reproduction*, **2020**, 102, 327-338	3.9	4
15	The expanding universe of PARP1-mediated molecular and therapeutic mechanisms.. *Molecular Cell* , **2022**,	17.6	4
14	A PreSTIGEous use of LncRNAs to predict enhancers. *Cell Cycle*, **2015**, 14, 1619-20	4.7	3
13	The Estrogen-Regulated Transcriptome: Rapid, Robust, Extensive, and Transient. *Cancer Drug Discovery and Development*, **2019**, 95-127	0.3	3
12	Author response: Global analysis of p53-regulated transcription identifies its direct targets and unexpected regulatory mechanisms **2014**,		2
11	Total Functional Score of Enhancer Elements Identifies Lineage-Specific Enhancers That Drive Differentiation of Pancreatic Cells. *Bioinformatics and Biology Insights*, **2020**, 14, 1177932220938063	5.3	2
10	Development and characterization of new tools for detecting poly(ADP-ribose) in vitro and in vivo.. *ELife*, **2022**, 11,	8.9	2
9	Characterization of basal and estrogen-regulated antisense transcription in breast cancer cells: Role in regulating sense transcription. *Molecular and Cellular Endocrinology*, **2020**, 506, 110746	4.4	1
8	Natural Selection has Shaped Coding and Non-coding Transcription in Primate CD4+ T-cells		1
7	PARP-1 Regulates Estrogen-Dependent Gene Expression in Estrogen Receptor □Positive Breast Cancer Cells. *Molecular Cancer Research*, **2021**, 19, 1688-1698	6.6	1
6	Two birds, one stone: Non-canonical therapeutic effects of the PARP inhibitor Talazoparib.. *Cell Chemical Biology*, **2022**, 29, 171-173	8.2	0
5	Identifying Genomic Sites of ADP-Ribosylation Mediated by Specific Nuclear PARP Enzymes Using Click-ChIP. *Methods in Molecular Biology*, **2018**, 1813, 371-387	1.4	
4	PARP Inhibitors may be Beneficial in a Broader Range of Patients. *Oncology & Hematology Review*, **2019**, 15, 66	0.1	
3	Regulation of Chromatin Structure and Function by PARP-1 and ADP-Ribosylation **2014**, 309-339		
2	Who Put the "A" in ATP? Generation of ATP from ADP-Ribose in the Nucleus for Hormone-Dependent Gene Regulation. *Molecular Cell*, **2016**, 63, 349-51	17.6	
1	Come one, come all? Re-evaluating RNA polymerase II pre-initiation complex assembly using single-molecule microscopy. *Molecular Cell*, **2021**, 81, 3443-3445	17.6	