

Michael Jj Matunis

List of Publications by Year in descending order

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89
papers

11,969
citations

66343

42
h-index

62596

80
g-index

91
all docs

91
docs citations

91
times ranked

10754
citing authors

#	ARTICLE	IF	CITATIONS
1	hnRNP PROTEINS AND THE BIOGENESIS OF mRNA. Annual Review of Biochemistry, 1993, 62, 289-321.	11.1	1,476
2	A novel ubiquitin-like modification modulates the partitioning of the Ran-GTPase-activating protein RanGAP1 between the cytosol and the nuclear pore complex.. Journal of Cell Biology, 1996, 135, 1457-1470.	5.2	1,047
3	Proteomic analysis of the mammalian nuclear pore complex. Journal of Cell Biology, 2002, 158, 915-927.	5.2	862
4	The C9orf72 repeat expansion disrupts nucleocytoplasmic transport. Nature, 2015, 525, 56-61.	27.8	835
5	Conjugation with the ubiquitin-related modifier SUMO-1 regulates the partitioning of PML within the nucleus. EMBO Journal, 1998, 17, 61-70.	7.8	609
6	The pre-mRNA binding K protein contains a novel evolutionary conserved motif. Nucleic Acids Research, 1993, 21, 1193-1198.	14.5	527
7	Structural Basis for E2-Mediated SUMO Conjugation Revealed by a Complex between Ubiquitin-Conjugating Enzyme Ubc9 and RanGAP1. Cell, 2002, 108, 345-356.	28.9	509
8	The Small Ubiquitin-like Modifier-1 (SUMO-1) Consensus Sequence Mediates Ubc9 Binding and Is Essential for SUMO-1 Modification. Journal of Biological Chemistry, 2001, 276, 21664-21669.	3.4	438
9	Nup358, a Cytoplasmically Exposed Nucleoporin with Peptide Repeats, Ran-GTP Binding Sites, Zinc Fingers, a Cyclophilin A Homologous Domain, and a Leucine-rich Region. Journal of Biological Chemistry, 1995, 270, 14209-14213.	3.4	432
10	SUMO-1 Modification and Its Role in Targeting the Ran GTPase-activating Protein, RanGAP1, to the Nuclear Pore Complex. Journal of Cell Biology, 1998, 140, 499-509.	5.2	425
11	Mapping Sites of O-GlcNAc Modification Using Affinity Tags for Serine and Threonine Post-translational Modifications. Molecular and Cellular Proteomics, 2002, 1, 791-804.	3.8	385
12	Enzymes of the SUMO Modification Pathway Localize to Filaments of the Nuclear Pore Complex. Molecular and Cellular Biology, 2002, 22, 6498-6508.	2.3	250
13	SUMO: A Multifaceted Modifier of Chromatin Structure and Function. Developmental Cell, 2013, 24, 1-12.	7.0	247
14	A Conserved Biogenesis Pathway for Nucleoporins: Proteolytic Processing of a 186-Kilodalton Precursor Generates Nup98 and the Novel Nucleoporin, Nup96. Journal of Cell Biology, 1999, 144, 1097-1112.	5.2	233
15	Regulation of Heat Shock Transcription Factor 1 by Stress-induced SUMO-1 Modification. Journal of Biological Chemistry, 2001, 276, 40263-40267.	3.4	215
16	SUMO-2/3 Modification and Binding Regulate the Association of CENP-E with Kinetochores and Progression through Mitosis. Molecular Cell, 2008, 29, 729-741.	9.7	212
17	The nuclear pore complex protein ALADIN is mislocalized in triple A syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 5823-5827.	7.1	174
18	A conserved catalytic residue in the ubiquitin-conjugating enzyme family. EMBO Journal, 2003, 22, 5241-5250.	7.8	162

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19	RNF4-Dependent Hybrid SUMO-Ubiquitin Chains Are Signals for RAP80 and Thereby Mediate the Recruitment of BRCA1 to Sites of DNA Damage. <i>Science Signaling</i> , 2012, 5, ra88.	3.6	158
20	SUMO-1 Modification Regulates the DNA Binding Activity of Heat Shock Transcription Factor 2, a Promyelocytic Leukemia Nuclear Body Associated Transcription Factor. <i>Journal of Biological Chemistry</i> , 2001, 276, 18513-18518.	3.4	156
21	Intra-nuclear trafficking of the BLM helicase to DNA damage-induced foci is regulated by SUMO modification. <i>Human Molecular Genetics</i> , 2005, 14, 1351-1365.	2.9	147
22	SUMO Modification of STAT1 and Its Role in PIAS-mediated Inhibition of Gene Activation. <i>Journal of Biological Chemistry</i> , 2003, 278, 30091-30097.	3.4	138
23	The hnRNP F protein: unique primary structure, nucleic acid-binding properties, and subcellular localization. <i>Nucleic Acids Research</i> , 1994, 22, 1059-1067.	14.5	135
24	Modification of Ran GTPase-activating Protein by the Small Ubiquitin-related Modifier SUMO-1 Requires Ubc9, an E2-type Ubiquitin-conjugating Enzyme Homologue. <i>Journal of Biological Chemistry</i> , 1998, 273, 6503-6507.	3.4	132
25	Small Ubiquitin-related Modifier (SUMO) Binding Determines Substrate Recognition and Paralog-selective SUMO Modification. <i>Journal of Biological Chemistry</i> , 2008, 283, 29405-29415.	3.4	125
26	Automated identification of SUMOylation sites using mass spectrometry and SUMmOn pattern recognition software. <i>Nature Methods</i> , 2006, 3, 533-539.	19.0	111
27	SUMO Modification Regulates BLM and RAD51 Interaction at Damaged Replication Forks. <i>PLoS Biology</i> , 2009, 7, e1000252.	5.6	109
28	SUMO Modification of Heterogeneous Nuclear Ribonucleoproteins. <i>Molecular and Cellular Biology</i> , 2004, 24, 3623-3632.	2.3	98
29	SUMO modified proteins localize to the XY body of pachytene spermatocytes. <i>Chromosoma</i> , 2004, 113, 233-243.	2.2	98
30	E2 ubiquitin-conjugating enzymes regulate the deubiquitinating activity of OTUB1. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 1033-1039.	8.2	97
31	The Defective Nuclear Lamina in Hutchinson-Gilford Progeria Syndrome Disrupts the Nucleocytoplasmic Ran Gradient and Inhibits Nuclear Localization of Ubc9. <i>Molecular and Cellular Biology</i> , 2011, 31, 3378-3395.	2.3	91
32	Evaluation of Interactions of Human Cytomegalovirus Immediate-Early IE2 Regulatory Protein with Small Ubiquitin-Like Modifiers and Their Conjugation Enzyme Ubc9. <i>Journal of Virology</i> , 2001, 75, 3859-3872.	3.4	89
33	The nuclear pore complex: disease associations and functional correlations. <i>Trends in Endocrinology and Metabolism</i> , 2004, 15, 34-39.	7.1	74
34	Proteasome-Independent Disruption of PML Oncogenic Domains (PODs), but Not Covalent Modification by SUMO-1, Is Required for Human Cytomegalovirus Immediate-Early Protein IE1 To Inhibit PML-Mediated Transcriptional Repression. <i>Journal of Virology</i> , 2001, 75, 10683-10695.	3.4	73
35	SUMO: The Glue that Binds. <i>Developmental Cell</i> , 2006, 11, 596-597.	7.0	73
36	Developmental control of sumoylation pathway proteins in mouse male germ cells. <i>Developmental Biology</i> , 2008, 321, 227-237.	2.0	66

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37	Protection from Isopeptidase-Mediated Deconjugation Regulates Paralog-Selective Sumoylation of RanGAP1. <i>Molecular Cell</i> , 2009, 33, 570-580.	9.7	65
38	SUMO Binding by the Epstein-Barr Virus Protein Kinase BGLF4 Is Crucial for BGLF4 Function. <i>Journal of Virology</i> , 2012, 86, 5412-5421.	3.4	56
39	The SUMO-specific isopeptidase SENP2 associates dynamically with nuclear pore complexes through interactions with karyopherins and the Nup107-160 nucleoporin subcomplex. <i>Molecular Biology of the Cell</i> , 2011, 22, 4868-4882.	2.1	55
40	Identification of Biochemically Distinct Properties of the Small Ubiquitin-related Modifier (SUMO) Conjugation Pathway in <i>Plasmodium falciparum</i> . <i>Journal of Biological Chemistry</i> , 2013, 288, 27724-27736.	3.4	51
41	SENP1 and SENP2 affect spatial and temporal control of sumoylation in mitosis. <i>Molecular Biology of the Cell</i> , 2013, 24, 3483-3495.	2.1	46
42	On the Road to Repair. <i>Molecular Cell</i> , 2002, 10, 441-442.	9.7	44
43	Synthesis of Free and Proliferating Cell Nuclear Antigen-bound Polyubiquitin Chains by the RING E3 Ubiquitin Ligase Rad5. <i>Journal of Biological Chemistry</i> , 2009, 284, 29326-29334.	3.4	38
44	The L1 family of long interspersed repetitive DNA in rabbits: Sequence, copy number, conserved open reading frames, and similarity to keratin. <i>Journal of Molecular Evolution</i> , 1989, 29, 3-19.	1.8	35
45	SUMO-1 Modification of the Wilms's Tumor Suppressor WT1. <i>Cancer Research</i> , 2004, 64, 7846-7851.	0.9	35
46	Isolation and fractionation of rat liver nuclear envelopes and nuclear pore complexes. <i>Methods</i> , 2006, 39, 277-283.	3.8	32
47	Identification of SUMO-2/3-modified proteins associated with mitotic chromosomes. <i>Proteomics</i> , 2015, 15, 763-772.	2.2	32
48	Expanding SUMO and ubiquitin-mediated signaling through hybrid SUMO-ubiquitin chains and their receptors. <i>Cell Cycle</i> , 2013, 12, 1015-1017.	2.6	30
49	BLM SUMOylation regulates ssDNA accumulation at stalled replication forks. <i>Frontiers in Genetics</i> , 2013, 4, 167.	2.3	29
50	An improved SUMmOn-based methodology for the identification of ubiquitin and ubiquitin-like protein conjugation sites identifies novel ubiquitin-like protein chain linkages. <i>Proteomics</i> , 2010, 10, 254-265.	2.2	27
51	Characterization of the SUMO-Binding Activity of the Myeloproliferative and Mental Retardation (MYM)-Type Zinc Fingers in ZNF261 and ZNF198. <i>PLoS ONE</i> , 2014, 9, e105271.	2.5	27
52	Purification and characterization of proteins of heterogeneous nuclear ribonucleoprotein complexes by affinity chromatography. <i>Methods in Enzymology</i> , 1990, 181, 326-331.	1.0	26
53	Sumoylation promotes optimal APC/C activation and timely anaphase. <i>ELife</i> , 2018, 7, .	6.0	26
54	Global Identification of Small Ubiquitin-related Modifier (SUMO) Substrates Reveals Crosstalk between SUMOylation and Phosphorylation Promotes Cell Migration. <i>Molecular and Cellular Proteomics</i> , 2018, 17, 871-888.	3.8	24

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55	Beginning at the end with SUMO. <i>Nature Structural and Molecular Biology</i> , 2005, 12, 565-566.	8.2	21
56	SUMO paralogues' specific functions revealed through systematic analysis of human knockout cell lines and gene expression data. <i>Molecular Biology of the Cell</i> , 2021, 32, 1849-1866.	2.1	21
57	RAP80, ubiquitin and SUMO in the DNA damage response. <i>Journal of Molecular Medicine</i> , 2017, 95, 799-807.	3.9	18
58	SUMO modification through rapamycin-mediated heterodimerization reveals a dual role for Ubc9 in targeting RanGAP1 to nuclear pore complexes. <i>Experimental Cell Research</i> , 2006, 312, 1042-1049.	2.6	17
59	E2-mediated Small Ubiquitin-like Modifier (SUMO) Modification of Thymine DNA Glycosylase Is Efficient but Not Selective for the Enzyme-Product Complex. <i>Journal of Biological Chemistry</i> , 2014, 289, 15810-15819.	3.4	17
60	A mediator methylation mystery: JMJD1C demethylates MDC1 to regulate DNA repair. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 1346-1348.	8.2	16
61	Characterizing Requirements for Small Ubiquitin-like Modifier (SUMO) Modification and Binding on Base Excision Repair Activity of Thymine-DNA Glycosylase in Vivo. <i>Journal of Biological Chemistry</i> , 2016, 291, 9014-9024.	3.4	15
62	Characterization and Structural Insights into Selective E1-E2 Interactions in the Human and <i>Plasmodium falciparum</i> SUMO Conjugation Systems. <i>Journal of Biological Chemistry</i> , 2016, 291, 3860-3870.	3.4	15
63	Global Analysis of SUMO-Binding Proteins Identifies SUMOylation as a Key Regulator of the INO80 Chromatin Remodeling Complex. <i>Molecular and Cellular Proteomics</i> , 2017, 16, 812-823.	3.8	15
64	A high throughput mutagenic analysis of yeast sumo structure and function. <i>PLoS Genetics</i> , 2017, 13, e1006612.	3.5	15
65	Keratin 17 regulates nuclear morphology and chromatin organization. <i>Journal of Cell Science</i> , 2020, 133, .	2.0	14
66	Concepts and Methodologies to Study Protein SUMOylation: An Overview. <i>Methods in Molecular Biology</i> , 2016, 1475, 3-22.	0.9	13
67	Identification of SUMO E3 Ligase-Specific Substrates Using the HuProt Human Proteome Microarray. <i>Methods in Molecular Biology</i> , 2015, 1295, 455-463.	0.9	11
68	The SUMO-specific isopeptidase SENP2 is targeted to intracellular membranes via a predicted N-terminal amphipathic α -helix. <i>Molecular Biology of the Cell</i> , 2018, 29, 1878-1890.	2.1	11
69	RNF4 Regulates the BLM Helicase in Recovery From Replication Fork Collapse. <i>Frontiers in Genetics</i> , 2021, 12, 753535.	2.3	10
70	Ub in charge: Regulating E2 enzyme nuclear import. <i>Nature Cell Biology</i> , 2005, 7, 12-14.	10.3	9
71	A cellular and bioinformatics analysis of the SENP1 SUMO isopeptidase in pancreatic cancer. <i>Journal of Gastrointestinal Oncology</i> , 2019, 10, 821-830.	1.4	8
72	SUMmOning Daxx-Mediated Repression. <i>Molecular Cell</i> , 2011, 42, 4-5.	9.7	7

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73	SUMOylation of mitofusins: A potential mechanism for perinuclear mitochondrial congression in cells treated with mitochondrial stressors. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2021, 1867, 166104.	3.8	7
74	Detection of SUMOylation in <i>Plasmodium falciparum</i> . <i>Methods in Molecular Biology</i> , 2016, 1475, 283-290.	0.9	6
75	Chapter 11 Isolation and Characterization of RNA-Binding Proteins from <i>Drosophila melanogaster</i> . <i>Methods in Cell Biology</i> , 1994, 44, 191-205.	1.1	5
76	SUMO, PTEN, and tumor suppression. <i>Pigment Cell and Melanoma Research</i> , 2012, 25, 718-720.	3.3	5
77	A Method for SUMO Modification of Proteins in vitro. <i>Bio-protocol</i> , 2018, 8, .	0.4	4
78	SUMO: The Glue that Binds. <i>Developmental Cell</i> , 2006, 11, 903.	7.0	1
79	A conserved catalytic residue in the ubiquitin-conjugating enzyme family. <i>EMBO Journal</i> , 2007, 26, 4051-4051.	7.8	1
80	Chromosome movement via multiple motors: Novel relationships between KIF18A and CENP-E revealed. <i>Cell Cycle</i> , 2009, 8, 3257-3260.	2.6	1
81	Recent studies on hnRNP complexes. <i>Molecular Biology Reports</i> , 1990, 14, 85-85.	2.3	0
82	Characterization of the Effects and Functions of Sumoylation Through Rapamycin-Mediated Heterodimerization. <i>Methods in Molecular Biology</i> , 2009, 497, 153-164.	0.9	0
83	Identification of Biochemically Distinct Properties of the Sumo Conjugation Pathway in <i>Plasmodium Falciparum</i> . <i>Biophysical Journal</i> , 2015, 108, 30a.	0.5	0
84	Resolving Chromatin Bridges With SIMs, SUMOs and PICH. <i>Cell Cycle</i> , 2016, 15, 2547-2548.	2.6	0
85	RNF4-Dependent Hybrid SUMO-Ubiquitin Chains are Signals for RAP80 and thereby Mediate the Recruitment of BRCA1 to Sites of DNA Damage. <i>FASEB Journal</i> , 2013, 27, 782.7.	0.5	0
86	Targeting the SUMO E1-E2 Enzyme Interaction in <i>Plasmodium falciparum</i> . <i>FASEB Journal</i> , 2015, 29, 717.20.	0.5	0
87	A SUMO-Dependent Pathway for Cytosolic Protein Quality Control. <i>FASEB Journal</i> , 2022, 36, .	0.5	0
88	SUMO 2 the rescue: how SUMO2 regulates the mitochondria via Drp1 modification. <i>FASEB Journal</i> , 2022, 36, .	0.5	0
89	SUMO Regulates Histone mRNA Processing and Polyadenylation. <i>FASEB Journal</i> , 2022, 36, .	0.5	0