Donald S Kirkpatrick

List of Publications by Year
in descending order

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83	10,069	38742 50	60623 81
papers	citations	h-index	g-index

86	86	86	15502
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The mitochondrial deubiquitinase USP30 opposes parkin-mediated mitophagy. Nature, 2014, 510, 370-375.	27.8	660
2	The absolute quantification strategy: a general procedure for the quantification of proteins and post-translational modifications. Methods, 2005, 35, 265-273.	3.8	518
3	Ubiquitin Chain Editing Revealed by Polyubiquitin Linkage-Specific Antibodies. Cell, 2008, 134, 668-678.	28.9	514
4	Differential Regulation of EGF Receptor Internalization and Degradation by Multiubiquitination within the Kinase Domain. Molecular Cell, 2006, 21, 737-748.	9.7	471
5	Quantitative analysis of in vitro ubiquitinated cyclin B1 reveals complex chain topology. Nature Cell Biology, 2006, 8, 700-710.	10.3	390
6	Lysine 63-linked ubiquitination promotes the formation and autophagic clearance of protein inclusions associated with neurodegenerative diseases. Human Molecular Genetics, 2008, 17, 431-439.	2.9	379
7	Primary cilia membrane assembly is initiated by Rab11 and transport protein particle II (TRAPPII) complex-dependent trafficking of Rabin8 to the centrosome. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 2759-2764.	7.1	376
8	Loss of the Tumor Suppressor BAP1 Causes Myeloid Transformation. Science, 2012, 337, 1541-1546.	12.6	355
9	K11-Linked Polyubiquitination in Cell Cycle Control Revealed by a K11 Linkage-Specific Antibody. Molecular Cell, 2010, 39, 477-484.	9.7	329
10	Ser ¹²⁹² Autophosphorylation Is an Indicator of LRRK2 Kinase Activity and Contributes to the Cellular Effects of PD Mutations. Science Translational Medicine, 2012, 4, 164ra161.	12.4	324
11	Deubiquitinating Enzyme Ubp6 Functions Noncatalytically to Delay Proteasomal Degradation. Cell, 2006, 127, 99-111.	28.9	316
12	c-IAP1 and UbcH5 promote K11-linked polyubiquitination of RIP1 in TNF signalling. EMBO Journal, 2010, 29, 4198-4209.	7.8	311
13	Ubiquitin Chains Are Remodeled at the Proteasome by Opposing Ubiquitin Ligase and Deubiquitinating Activities. Cell, 2006, 127, 1401-1413.	28.9	280
14	USP30 and parkin homeostatically regulate atypical ubiquitin chains on mitochondria. Nature Cell Biology, 2015, 17, 160-169.	10.3	258
15	Weighing in on ubiquitin: the expanding role of mass-spectrometry-based proteomics. Nature Cell Biology, 2005, 7, 750-757.	10.3	210
16	Discovery of Novel Blood-Brain Barrier Targets to Enhance Brain Uptake of Therapeutic Antibodies. Neuron, 2016, 89, 70-82.	8.1	193
17	Ubiquitin Ligase RNF146 Regulates Tankyrase and Axin to Promote Wnt Signaling. PLoS ONE, 2011, 6, e22595.	2.5	176
18	Ubiquitin Binding to A20 ZnF4 Is Required for Modulation of NF-ÎºB Signaling. Molecular Cell, 2010, 40, 548-557.	9.7	171

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19	OTULIN limits cell death and inflammation by deubiquitinating LUBAC. Nature, 2018, 559, 120-124.	27.8	151
20	Deubiquitinase USP37 Is Activated by CDK2 to Antagonize APCCDH1 and Promote S Phase Entry. Molecular Cell, 2011, 42, 511-523.	9.7	131
21	APC/C-mediated multiple monoubiquitylation provides an alternative degradation signal for cyclin B1. Nature Cell Biology, 2012, 14, 168-176.	10.3	125
22	JNK-mediated phosphorylation of DLK suppresses its ubiquitination to promote neuronal apoptosis. Journal of Cell Biology, 2013, 202, 747-763.	5.2	125
23	Monoubiquitination of RPN10 Regulates Substrate Recruitment to the Proteasome. Molecular Cell, 2010, 38, 733-745.	9.7	124
24	Improved Quantitative Mass Spectrometry Methods for Characterizing Complex Ubiquitin Signals. Molecular and Cellular Proteomics, 2011, 10, M110.003756.	3.8	124
25	Overcoming EMT-associated resistance to anti-cancer drugs via Src/FAK pathway inhibition. Oncotarget, 2014, 5, 7328-7341.	1.8	120
26	A Perturbed Ubiquitin Landscape Distinguishes Between Ubiquitin in Trafficking and in Proteolysis. Molecular and Cellular Proteomics, 2011, 10, M111.009753.	3.8	115
27	Deubiquitinase DUBA is a post-translational brake on interleukin-17 production in T cells. Nature, 2015, 518, 417-421.	27.8	110
28	Ubiquitin binding modulates IAP antagonist-stimulated proteasomal degradation of c-IAP1 and c-IAP2. Biochemical Journal, 2009, 417, 149-165.	3.7	106
29	Engineering and Structural Characterization of a Linear Polyubiquitin-Specific Antibody. Journal of Molecular Biology, 2012, 418, 134-144.	4.2	105
30	A novel acetylation of Î²-tubulin by San modulates microtubule polymerization via down-regulating tubulin incorporation. Molecular Biology of the Cell, 2011, 22, 448-456.	2.1	102
31	Dynamic Regulation of Mitochondrial Import by the Ubiquitin System. Molecular Cell, 2020, 77, 1107-1123.e10.	9.7	101
32	OTUB1 modulates c-IAP1 stability to regulate signalling pathways. EMBO Journal, 2013, 32, 1103-1114.	7.8	100
33	Selective autophagy of the adaptor TRIF regulates innate inflammatory signaling. Nature Immunology, 2018, 19, 246-254.	14.5	99
34	Coordinated ubiquitination and phosphorylation of RIP1 regulates necroptotic cell death. Cell Death and Differentiation, 2017, 24, 26-37.	11.2	95
35	Disruption of XIAP-RIP2 Association Blocks NOD2-Mediated Inflammatory Signaling. Molecular Cell, 2018, 69, 551-565.e7.	9.7	95
36	Transcription factor Etv5 is essential for the maintenance of alveolar type II cells. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3903-3908.	7.1	94

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37	Ribosome Binding of a Single Copy of the SecY Complex: Implications for Protein Translocation. Molecular Cell, 2007, 28, 1083-1092.	9.7	92
38	Proteomic identification of ubiquitinated proteins from human cells expressing His-tagged ubiquitin. Proteomics, 2005, 5, 2104-2111.	2.2	86
39	Extraproteasomal Rpn10 Restricts Access of the Polyubiquitin-Binding Protein Dsk2 to Proteasome. Molecular Cell, 2008, 32, 415-425.	9.7	84
40	Dual leucine zipper kinase is required for excitotoxicity-induced neuronal degeneration. Journal of Experimental Medicine, 2013, 210, 2553-2567.	8.5	83
41	Application of Mass Spectrometry Profiling to Establish Brusatol as an Inhibitor of Global Protein Synthesis. Molecular and Cellular Proteomics, 2016, 15, 1220-1231.	3.8	83
42	Preparation of Distinct Ubiquitin Chain Reagents of High Purity and Yield. Structure, 2011, 19, 1053-1063.	3.3	80
43	Ubiquitin Ligase COP1 Suppresses Neuroinflammation by Degrading c/EBPÎ² in Microglia. Cell, 2020, 182, 1156-1169.e12.	28.9	77
44	Budding Yeast Silencing Complexes and Regulation of Sir2 Activity by Protein-Protein Interactions. Molecular and Cellular Biology, 2004, 24, 6931-6946.	2.3	73
45	PIASy-dependent SUMOylation regulates DNA topoisomerase IIÎ± activity. Journal of Cell Biology, 2010, 191, 783-794.	5.2	62
46	Global site-specific neddylation profiling reveals that NEDDylated cofilin regulates actin dynamics. Nature Structural and Molecular Biology, 2020, 27, 210-220.	8.2	61
47	HectD1 E3 Ligase Modifies Adenomatous Polyposis Coli (APC) with Polyubiquitin to Promote the APC-Axin Interaction. Journal of Biological Chemistry, 2013, 288, 3753-3767.	3.4	58
48	The Hominoid-specific Oncogene TBC1D3 Activates Ras and Modulates Epidermal Growth Factor Receptor Signaling and Trafficking. Journal of Biological Chemistry, 2008, 283, 13233-13242.	3.4	57
49	NeuCode Proteomics Reveals Bap1 Regulation of Metabolism. Cell Reports, 2016, 16, 583-595.	6.4	57
50	PIKES Analysis Reveals Response to Degraders and Key Regulatory Mechanisms of the CRL4 Network. Molecular Cell, 2020, 77, 1092-1106.e9.	9.7	56
51	Characterizing Ubiquitination Sites by Peptide-based Immunoaffinity Enrichment. Molecular and Cellular Proteomics, 2012, 11, 1529-1540.	3.8	55
52	A Novel Reaction Mediated by Human Aldehyde Oxidase: Amide Hydrolysis of GDC-0834. Drug Metabolism and Disposition, 2015, 43, 908-915.	3.3	53
53	Proteomic insights into ubiquitin and ubiquitin-like proteins. Current Opinion in Chemical Biology, 2005, 9, 69-75.	6.1	51
54	Phosphoproteomic characterization of DNA damage response in melanoma cells following MEK/PI3K dual inhibition. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19426-19431.	7.1	51

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55	A Biologist's Field Guide to Multiplexed Quantitative Proteomics. Molecular and Cellular Proteomics, 2016, 15, 1489-1497.	3.8	50
56	PIASy Mediates SUMO-2/3 Conjugation of Poly(ADP-ribose) Polymerase 1 (PARP1) on Mitotic Chromosomes. Journal of Biological Chemistry, 2010, 285, 14415-14423.	3.4	49
57	Conformational dynamics control ubiquitin-deubiquitinase interactions and influence in vivo signaling. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11379-11384.	7.1	48
58	The Gag protein PEG10 binds to RNA and regulates trophoblast stem cell lineage specification. PLoS ONE, 2019, 14, e0214110.	2.5	48
59	Modulation of K11-Linkage Formation by Variable Loop Residues within UbcH5A. Journal of Molecular Biology, 2011, 408, 420-431.	4.2	41
60	Extended ubiquitin species are protein-based DUB inhibitors. Nature Chemical Biology, 2014, 10, 664-670.	8.0	31
61	Monitoring protein communities and their responses to therapeutics. Nature Reviews Drug Discovery, 2020, 19, 414-426.	46.4	29
62	The ubiquitinâ€“proteasome system regulates membrane fusion of yeast vacuoles. EMBO Journal, 2007, 26, 275-287.	7.8	27
63	Mass Spectrometric Analysis of Type 1 Inositol 1,4,5-Trisphosphate Receptor Ubiquitination*. Journal of Biological Chemistry, 2008, 283, 35319-35328.	3.4	26
64	PTCD1 Is Required for Mitochondrial Oxidative-Phosphorylation: Possible Genetic Association with Alzheimer's Disease. Journal of Neuroscience, 2019, 39, 4636-4656.	3.6	26
65	Muscle specific kinase (MuSK) activation preserves neuromuscular junctions in the diaphragm but is not sufficient to provide a functional benefit in the SOD1G93A mouse model of ALS. Neurobiology of Disease, 2019, 124, 340-352.	4.4	26
66	Peptide Level Immunoaffinity Enrichment Enhances Ubiquitination Site Identification on Individual Proteins. Molecular and Cellular Proteomics, 2014, 13, 145-156.	3.8	25
67	Complementary Proteomic Tools for the Dissection of Apoptotic Proteolysis Events. Journal of Proteome Research, 2012, 11, 2947-2954.	3.7	23
68	PPEF2 Opposes PINK1-Mediated Mitochondrial Quality Control by Dephosphorylating Ubiquitin. Cell Reports, 2019, 29, 3280-3292.e7.	6.4	20
69	CRAF dimerization with ARAF regulates KRAS-driven tumor growth. Cell Reports, 2022, 38, 110351.	6.4	18
70	Immunoaffinity Enrichment Coupled to Quantitative Mass Spectrometry Reveals Ubiquitin-Mediated Signaling Events. Journal of Molecular Biology, 2015, 427, 2121-2134.	4.2	14
71	Role of the E3 ubiquitin ligase RNF157 as a novel downstream effector linking PI3K and MAPK signaling pathways to the cell cycle. Journal of Biological Chemistry, 2017, 292, 14311-14324.	3.4	14
72	TomahaqCompanion: A Tool for the Creation and Analysis of Isobaric Label Based Multiplexed Targeted Assays. Journal of Proteome Research, 2019, 18, 594-605.	3.7	14

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73	Antibody toolkit reveals N-terminally ubiquitinated substrates of UBE2W. Nature Communications, 2021, 12, 4608.	12.8	14
74	A Novel Peptide-Based SILAC Method to Identify the Posttranslational Modifications Provides Evidence for Unconventional Ubiquitination in the ER-Associated Degradation Pathway. International Journal of Proteomics, 2013, 2013, 1-12.	2.0	11
75	Multiplexed proteomics of autophagy-deficient murine macrophages reveals enhanced antimicrobial immunity via the oxidative stress response. ELife, 2021, 10, .	6.0	10
76	Ubiquitination profiling identifies sensitivity factors for IAP antagonist treatment. Biochemical Journal, 2015, 466, 45-54.	3.7	9
77	Chaperone mediated detection of small molecule target binding in cells. Nature Communications, 2020, 11, 465.	12.8	8
78	Phosphoproteome Profiling of the Receptor Tyrosine Kinase MuSK Identifies Tyrosine Phosphorylation of Rab GTPases. Molecular and Cellular Proteomics, 2022, 21, 100221.	3.8	5
79	Quantitative phosphoproteomic analysis of the PI3K-regulated signaling network. Proteomics, 2016, 16, 1992-1997.	2.2	4
80	GPS navigation of the protein-stability landscape. Nature Biotechnology, 2009, 27, 46-48.	17.5	2
81	Interpreting the Language of Polyubiquitin with Linkage-Specific Antibodies and Mass Spectrometry. Methods in Molecular Biology, 2018, 1844, 385-400.	0.9	2
82	Dual leucine zipper kinase is required for excitotoxicity induced neuronal degeneration. Journal of Cell Biology, 2013, 203, 2033OIA132.	5.2	0
83	Interrogation of In Vivo Proteinâ€"Protein Interactions Using Transgenic Mouse Models and Stable Isotope Labeling. Methods in Molecular Biology, 2014, 1176, 179-190.	0.9	0