

Marcus Bustamante Smolka

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78
papers

3,132
citations

30
h-index

55
g-index

92
ext. papers

3,832
ext. citations

8.6
avg, IF

5.3
L-index

#	Paper	IF	Citations
78	A multidimensional chromatography technology for in-depth phosphoproteome analysis. <i>Molecular and Cellular Proteomics</i> , 2008 , 7, 1389-96	7.6	392
77	Proteome-wide identification of in vivo targets of DNA damage checkpoint kinases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 10364-9	11.5	331
76	Optimization of the isotope-coded affinity tag-labeling procedure for quantitative proteome analysis. <i>Analytical Biochemistry</i> , 2001 , 297, 25-31	3.1	180
75	The ALS/FTLD associated protein C9orf72 associates with SMCR8 and WDR41 to regulate the autophagy-lysosome pathway. <i>Acta Neuropathologica Communications</i> , 2016 , 4, 51	7.3	175
74	TORC1 regulates endocytosis via Npr1-mediated phosphoinhibition of a ubiquitin ligase adaptor. <i>Cell</i> , 2011 , 147, 1104-17	56.2	150
73	Prosaposin facilitates sortilin-independent lysosomal trafficking of progranulin. <i>Journal of Cell Biology</i> , 2015 , 210, 991-1002	7.3	112
72	DNA damage kinase signaling: checkpoint and repair at 30 years. <i>EMBO Journal</i> , 2019 , 38, e101801	13	87
71	Quantitative protein profiling using two-dimensional gel electrophoresis, isotope-coded affinity tag labeling, and mass spectrometry. <i>Molecular and Cellular Proteomics</i> , 2002 , 1, 19-29	7.6	87
70	Phosphoproteomics reveals distinct modes of Mec1/ATR signaling during DNA replication. <i>Molecular Cell</i> , 2015 , 57, 1124-1132	17.6	81
69	DNA damage signaling recruits the Rtt107-Slx4 scaffolds via Dpb11 to mediate replication stress response. <i>Molecular Cell</i> , 2010 , 39, 300-6	17.6	81
68	The Legionella effector SidC defines a unique family of ubiquitin ligases important for bacterial phagosomal remodeling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 10538-43	11.5	77
67	An FHA domain-mediated protein interaction network of Rad53 reveals its role in polarized cell growth. <i>Journal of Cell Biology</i> , 2006 , 175, 743-53	7.3	76
66	Checkpoint proteins control morphogenetic events during DNA replication stress in <i>Saccharomyces cerevisiae</i> . <i>Journal of Cell Biology</i> , 2006 , 175, 729-41	7.3	76
65	Proteome analysis of the plant pathogen <i>Xylella fastidiosa</i> reveals major cellular and extracellular proteins and a peculiar codon bias distribution. <i>Proteomics</i> , 2003 , 3, 224-37	4.8	72
64	DNA-repair scaffolds dampen checkpoint signalling by counteracting the adaptor Rad9. <i>Nature</i> , 2013 , 493, 120-4	50.4	71
63	Local phosphocycling mediated by LOK/SLK restricts ezrin function to the apical aspect of epithelial cells. <i>Journal of Cell Biology</i> , 2012 , 199, 969-84	7.3	66
62	Dynamic changes in protein-protein interaction and protein phosphorylation probed with amine-reactive isotope tag. <i>Molecular and Cellular Proteomics</i> , 2005 , 4, 1358-69	7.6	62

61	Mechanism of Dun1 activation by Rad53 phosphorylation in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2007 , 282, 986-95	5.4	60
60	Linking DNA replication checkpoint to MBF cell-cycle transcription reveals a distinct class of G1/S genes. <i>EMBO Journal</i> , 2012 , 31, 1798-810	13	51
59	DNA replication stress differentially regulates G1/S genes via Rad53-dependent inactivation of Nrm1. <i>EMBO Journal</i> , 2012 , 31, 1811-22	13	51
58	Phosphorylation-specific MS/MS scoring for rapid and accurate phosphoproteome analysis. <i>Journal of Proteome Research</i> , 2008 , 7, 3373-81	5.6	45
57	Whi5 regulation by site specific CDK-phosphorylation in <i>Saccharomyces cerevisiae</i> . <i>PLoS ONE</i> , 2009 , 4, e4300	3.7	41
56	Impact of phosphorylation and phosphorylation-null mutants on the activity and deamination specificity of activation-induced cytidine deaminase. <i>Journal of Biological Chemistry</i> , 2008 , 283, 17428-39 ^{5.4}		36
55	Dampening DNA damage checkpoint signalling via coordinated BRCT domain interactions. <i>EMBO Journal</i> , 2015 , 34, 1704-17	13	35
54	A massively parallel pipeline to clone DNA variants and examine molecular phenotypes of human disease mutations. <i>PLoS Genetics</i> , 2014 , 10, e1004819	6	35
53	Interactome analysis reveals ezrin can adopt multiple conformational states. <i>Journal of Biological Chemistry</i> , 2013 , 288, 35437-51	5.4	34
52	Slx4 and Rtt107 control checkpoint signalling and DNA resection at double-strand breaks. <i>Nucleic Acids Research</i> , 2016 , 44, 669-82	20.1	33
51	Protein polyglutamylation catalyzed by the bacterial calmodulin-dependent pseudokinase SidJ. <i>ELife</i> , 2019 , 8,	8.9	33
50	Progranulin deficiency leads to reduced glucocerebrosidase activity. <i>PLoS ONE</i> , 2019 , 14, e0212382	3.7	32
49	TOPBP1 plays a conserved role in homologous recombination DNA repair through the coordinated recruitment of 53BP1. <i>Journal of Cell Biology</i> , 2017 , 216, 623-639	7.3	30
48	Assembly of Slx4 signaling complexes behind DNA replication forks. <i>EMBO Journal</i> , 2015 , 34, 2182-97	13	30
47	Chronic DNA Replication Stress Reduces Replicative Lifespan of Cells by TRP53-Dependent, microRNA-Assisted MCM2-7 Downregulation. <i>PLoS Genetics</i> , 2016 , 12, e1005787	6	30
46	In-depth and 3-dimensional exploration of the budding yeast phosphoproteome. <i>EMBO Reports</i> , 2021 , 22, e51121	6.5	30
45	ATR-mediated proteome remodeling is a major determinant of homologous recombination capacity in cancer cells. <i>Nucleic Acids Research</i> , 2018 , 46, 8311-8325	20.1	29
44	Deubiquitination of phosphoribosyl-ubiquitin conjugates by phosphodiesterase-domain-containing effectors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 23518-23526	11.5	29

43	Checkpoint Responses to DNA Double-Strand Breaks. <i>Annual Review of Biochemistry</i> , 2020 , 89, 103-133	29.1	28
42	Purification and partial characterization of a thrombin-like enzyme, balterobin, from the venom of <i>Bothrops alternatus</i> . <i>Toxicon</i> , 1998 , 36, 1059-63	2.8	26
41	Separable roles for Mec1/ATR in genome maintenance, DNA replication, and checkpoint signaling. <i>Genes and Development</i> , 2018 , 32, 822-835	12.6	22
40	MaXLinker: Proteome-wide Cross-link Identifications with High Specificity and Sensitivity. <i>Molecular and Cellular Proteomics</i> , 2020 , 19, 554-568	7.6	21
39	Extraction, purification and biochemical characterization of a peroxidase from <i>Copaifera langsdorffii</i> leaves. <i>Quimica Nova</i> , 2007 , 30, 1067-1071	1.6	16
38	PLEKHA4/kramer Attenuates Dishevelled Ubiquitination to Modulate Wnt and Planar Cell Polarity Signaling. <i>Cell Reports</i> , 2019 , 27, 2157-2170.e8	10.6	15
37	Termination of Replication Stress Signaling via Concerted Action of the Slx4 Scaffold and the PP4 Phosphatase. <i>Genetics</i> , 2015 , 201, 937-49	4	13
36	Quantitative Analysis of DNA Damage Signaling Responses to Chemical and Genetic Perturbations. <i>Methods in Molecular Biology</i> , 2018 , 1672, 645-660	1.4	13
35	Slx4 scaffolding in homologous recombination and checkpoint control: lessons from yeast. <i>Chromosoma</i> , 2017 , 126, 45-58	2.8	12
34	The checkpoint transcriptional response: make sure to turn it off once you are satisfied. <i>Cell Cycle</i> , 2012 , 11, 3166-74	4.7	10
33	ATR signaling in mammalian meiosis: From upstream scaffolds to downstream signaling. <i>Environmental and Molecular Mutagenesis</i> , 2020 , 61, 752-766	3.2	10
32	Next-Generation Sequencing Enables Spatiotemporal Resolution of Human Centromere Replication Timing. <i>Genes</i> , 2019 , 10,	4.2	8
31	Mec1 Autophosphorylation and Ddc2 Phosphorylation Regulates DNA Damage Checkpoint Signaling. <i>Cell Reports</i> , 2019 , 28, 1090-1102.e3	10.6	8
30	The co-repressor SMRT delays DNA damage-induced caspase activation by repressing pro-apoptotic genes and modulating the dynamics of checkpoint kinase 2 activation. <i>PLoS ONE</i> , 2013 , 8, e59986	3.7	8
29	Structural basis of TRAPPIII-mediated Rab1 activation. <i>EMBO Journal</i> , 2021 , 40, e107607	13	8
28	Activity of a ubiquitin ligase adaptor is regulated by disordered insertions in its arrestin domain. <i>Molecular Biology of the Cell</i> , 2019 , 30, 3057-3072	3.5	7
27	Maximized quantitative phosphoproteomics allows high confidence dissection of the DNA damage signaling network. <i>Scientific Reports</i> , 2020 , 10, 18056	4.9	7
26	The Rad53-Spt21 and Tel1 axes couple glucose tolerance to histone dosage and subtelomeric silencing. <i>Nature Communications</i> , 2020 , 11, 4154	17.4	7

25	Absence of classical heat shock response in the citrus pathogen <i>Xylella fastidiosa</i> . <i>Current Microbiology</i> , 2007 , 54, 119-23	2.4	6
24	Phosphoproteomics reveals a distinctive Mec1/ATR signaling response upon DNA end hyper-resection. <i>EMBO Journal</i> , 2021 , 40, e104566	13	6
23	TOPBP1 takes RADical command in recombinational DNA repair. <i>Journal of Cell Biology</i> , 2016 , 212, 263-73	6.3	6
22	Comparative analysis of two-dimensional electrophoresis maps (2-DE) of <i>Helicobacter pylori</i> from Brazilian patients with chronic gastritis and duodenal ulcer: a preliminary report. <i>Revista Do Instituto De Medicina Tropical De Sao Paulo</i> , 2006 , 48, 175-7	2.2	5
21	Intrinsic ATR signaling shapes DNA end resection and suppresses toxic DNA-PKcs signaling. <i>NAR Cancer</i> , 2020 , 2, zcaa006	5.2	4
20	The many roads to checkpoint activation. <i>Cell Cycle</i> , 2012 , 11, 4495	4.7	3
19	Primary Structure of a Trypsin Inhibitor (Copaifera langsdorffii Trypsin Inhibitor-1) Obtained from C. langsdorffii Seeds. <i>Journal of Biomolecular Techniques</i> , 2015 , 26, 90-102	1.1	2
18	Deubiquitination of phosphoribosyl-ubiquitin conjugates by PDE domain-containing Legionella effectors		2
17	In-depth and 3-Dimensional Exploration of the Budding Yeast Phosphoproteome		2
16	Phosphoproteomics of ATR Signaling in Prophase I of Mouse Meiosis		2
15	Checkpoint-mediated DNA polymerase δ exonuclease activity curbing counteracts resection-driven fork collapse. <i>Molecular Cell</i> , 2021 , 81, 2778-2792.e4	17.6	2
14	Low lamin A levels enhance confined cell migration and metastatic capacity in breast cancer		2
13	A touching moment for Smc5/6: from ssDNA binding to repair. <i>Cell Cycle</i> , 2011 , 10, 1190-1	4.7	1
12	Multiple 9-1-1 complexes promote homolog synapsis, DSB repair, and ATR signaling during mammalian meiosis.. <i>ELife</i> , 2022 , 11,	8.9	1
11	Phosphoproteomics of ATR signaling in mouse testes.. <i>ELife</i> , 2022 , 11,	8.9	1
10	Maximizing Quantitative Phosphoproteomics of Kinase Signaling Expands the Mec1 and Tel1 Networks		1
9	Phosphoproteomics Reveals a Distinct Mode of Mec1/ATR Signaling in Response to DNA End Hyper-Resection		1
8	Protein polyglutamylation catalyzed by the bacterial Calmodulin-dependent pseudokinase SidJ		1

7	Glucosylation by the Legionella Effector SetA Promotes the Nuclear Localization of the Transcription Factor TFEB. <i>iScience</i> , 2020 , 23, 101300	6.1	1
6	Multiple 9-1-1 complexes promote homolog synapsis, DSB repair, and ATR signaling during mammalian meiosis		1
5	Characterization of an anti-FLAG antibody binding protein in <i>Vibrio cholerae</i> . <i>Biochemical and Biophysical Research Communications</i> , 2020 , 528, 493-498	3.4	0
4	IGF1R-IRS1/2 Pharmacological Inhibitors Act By Distinct Cellular and Molecular Mechanisms and Reveals Vulnerabilities for Treatment of Acute Myeloid Leukemia. <i>Blood</i> , 2021 , 138, 1869-1869	2.2	
3	FHA domain mediated protein interaction network of Dun1 identifies its novel functions in the DNA damage response. <i>FASEB Journal</i> , 2006 , 20, A509	0.9	
2	TOPBP1 takes RADical command in recombinational DNA repair. <i>Journal of Experimental Medicine</i> , 2016 , 213, 213201A2	16.6	
1	Fe-NTA Microcolumn Purification of Phosphopeptides from Immunoprecipitation (IP) Eluates for Mass Spectrometry Analysis. <i>Bio-protocol</i> , 2021 , 11, e4113	0.9	