

Robert N Cole

List of Publications by Year in descending order

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88
papers

4,050
citations

172457

29
h-index

128289

60
g-index

90
all docs

90
docs citations

90
times ranked

7815
citing authors

#	ARTICLE	IF	CITATIONS
1	Pyruvate Kinase M2 Is a PHD3-Stimulated Coactivator for Hypoxia-Inducible Factor 1. <i>Cell</i> , 2011, 145, 732-744.	28.9	1,210
2	Detecting significant changes in protein abundance. <i>EuPA Open Proteomics</i> , 2015, 7, 11-19.	2.5	240
3	Astrocyte-shed extracellular vesicles regulate the peripheral leukocyte response to inflammatory brain lesions. <i>Science Signaling</i> , 2017, 10, .	3.6	199
4	Proteomic Analysis of Chinese Hamster Ovary Cells. <i>Journal of Proteome Research</i> , 2012, 11, 5265-5276.	3.7	168
5	The nonlesional skin surface distinguishes atopic dermatitis with food allergy as a unique endotype. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	159
6	Synthetic Circular RNA Functions as a miR-21 Sponge to Suppress Gastric Carcinoma Cell Proliferation. <i>Molecular Therapy - Nucleic Acids</i> , 2018, 13, 312-321.	5.1	150
7	Statistical Inference from Multiple iTRAQ Experiments without Using Common Reference Standards. <i>Journal of Proteome Research</i> , 2013, 12, 594-604.	3.7	130
8	Glycosylation Sites Flank Phosphorylation Sites on Synapsin I. <i>Journal of Neurochemistry</i> , 2002, 73, 418-428.	3.9	91
9	The structural unit of melanin in the cell wall of the fungal pathogen <i>Cryptococcus neoformans</i> . <i>Journal of Biological Chemistry</i> , 2019, 294, 10471-10489.	3.4	85
10	Removal of Abnormal Myofilament <i>O</i> -GlcNAcylation Restores Ca ²⁺ Sensitivity in Diabetic Cardiac Muscle. <i>Diabetes</i> , 2015, 64, 3573-3587.	0.6	82
11	Protein kinase A-dependent phosphorylation stimulates the transcriptional activity of hypoxia-inducible factor 1. <i>Science Signaling</i> , 2016, 9, ra56.	3.6	76
12	Stimulus-dependent modifications in astrocyte-derived extracellular vesicle cargo regulate neuronal excitability. <i>Glia</i> , 2020, 68, 128-144.	4.9	76
13	OxLDL Triggers Retrograde Translocation of Arginase2 in Aortic Endothelial Cells via ROCK and Mitochondrial Processing Peptidase. <i>Circulation Research</i> , 2014, 115, 450-459.	4.5	75
14	Proton Transfer in the Mechanism of Triosephosphate Isomerase. <i>Biochemistry</i> , 1998, 37, 16828-16838.	2.5	66
15	Divergent paths for the selection of immunodominant epitopes from distinct antigenic sources. <i>Nature Communications</i> , 2014, 5, 5369.	12.8	62
16	Fatty acid synthase inhibits the <i>O</i> -GlcNAcase during oxidative stress. <i>Journal of Biological Chemistry</i> , 2017, 292, 6493-6511.	3.4	52
17	Combined Antibody/Lectin Enrichment Identifies Extensive Changes in the <i>O</i> -GlcNAc Sub-proteome upon Oxidative Stress. <i>Journal of Proteome Research</i> , 2016, 15, 4318-4336.	3.7	50
18	Cyclic GMP Kinase II (cGKII) Inhibits NHE3 by Altering Its Trafficking and Phosphorylating NHE3 at Three Required Sites. <i>Journal of Biological Chemistry</i> , 2015, 290, 1952-1965.	3.4	49

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19	Post-Translational Modifications (PTMs), Identified on Endogenous Huntingtin, Cluster within Proteolytic Domains between HEAT Repeats. <i>Journal of Proteome Research</i> , 2017, 16, 2692-2708.	3.7	48
20	Lysyl oxidase-like 2 depletion is protective in age-associated vascular stiffening. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 317, H49-H59.	3.2	44
21	Phosphorylation of Mutant Huntingtin at Serine 116 Modulates Neuronal Toxicity. <i>PLoS ONE</i> , 2014, 9, e88284.	2.5	42
22	The prionlike domain of FUS is multiphosphorylated following DNA damage without altering nuclear localization. <i>Molecular Biology of the Cell</i> , 2018, 29, 1786-1797.	2.1	40
23	Oxidized CaMKII and O-GlcNAcylation cause increased atrial fibrillation in diabetic mice by distinct mechanisms. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	40
24	Integrated Omic Analysis of a Guinea Pig Model of Heart Failure and Sudden Cardiac Death. <i>Journal of Proteome Research</i> , 2016, 15, 3009-3028.	3.7	37
25	Kinetic and structural analyses reveal residues in phosphoinositide 3-kinase $\hat{\pm}$ that are critical for catalysis and substrate recognition. <i>Journal of Biological Chemistry</i> , 2017, 292, 13541-13550.	3.4	36
26	Elucidation of the CHO Super-Ome (CHO-SO) by Proteoinformatics. <i>Journal of Proteome Research</i> , 2015, 14, 4687-4703.	3.7	35
27	FOXO3 contributes to Peters anomaly through transcriptional regulation of an autophagy-associated protein termed DNAJB1. <i>Nature Communications</i> , 2016, 7, 10953.	12.8	35
28	Quantitative Proteomic Analysis Reveals Similarities between Huntington's Disease (HD) and Huntington's Disease-Like 2 (HDL2) Human Brains. <i>Journal of Proteome Research</i> , 2016, 15, 3266-3283.	3.7	32
29	Dual Labeling Biotin Switch Assay to Reduce Bias Derived From Different Cysteine Subpopulations. <i>Circulation Research</i> , 2015, 117, 846-857.	4.5	31
30	HIF-1 Interacts with TRIM28 and DNA-PK to release paused RNA polymerase II and activate target gene transcription in response to hypoxia. <i>Nature Communications</i> , 2022, 13, 316.	12.8	31
31	Skin tape proteomics identifies pathways associated with transepidermal water loss and allergen polysensitization in atopic dermatitis. <i>Journal of Allergy and Clinical Immunology</i> , 2020, 146, 1367-1378.	2.9	30
32	Communication between the N and C Termini Is Required for Copper-stimulated Ser/Thr Phosphorylation of Cu(I)-ATPase (ATP7B). <i>Journal of Biological Chemistry</i> , 2015, 290, 8803-8819.	3.4	29
33	PHD3-mediated prolyl hydroxylation of nonmuscle actin impairs polymerization and cell motility. <i>Molecular Biology of the Cell</i> , 2014, 25, 2788-2796.	2.1	27
34	General intelligence is associated with subclinical inflammation in Nepalese children: A population-based plasma proteomics study. <i>Brain, Behavior, and Immunity</i> , 2016, 56, 253-263.	4.1	25
35	Proteolysis by Granzyme B Enhances Presentation of Autoantigenic Peptidylarginine Deiminase 4 Epitopes in Rheumatoid Arthritis. <i>Journal of Proteome Research</i> , 2017, 16, 355-365.	3.7	25
36	Plasma Proteome Biomarkers of Inflammation in School Aged Children in Nepal. <i>PLoS ONE</i> , 2015, 10, e0144279.	2.5	22

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37	Global Effects of DDX3 Inhibition on Cell Cycle Regulation Identified by a Combined Phosphoproteomics and Single Cell Tracking Approach. <i>Translational Oncology</i> , 2018, 11, 755-763.	3.7	21
38	Quantitative Proteomics Reveals that the OGT Interactome Is Remodeled in Response to Oxidative Stress. <i>Molecular and Cellular Proteomics</i> , 2021, 20, 100069.	3.8	21
39	Fluid shear stress enhances differentiation of jejunal human enteroids in Intestine-Chip. <i>American Journal of Physiology - Renal Physiology</i> , 2021, 320, G258-G271.	3.4	20
40	Glycogen synthase kinase-3-mediated phosphorylation of serine 73 targets sterol response element binding protein-1c (SREBP-1c) for proteasomal degradation. <i>Bioscience Reports</i> , 2016, 36, e00284.	2.4	19
41	Insulin-induced de novo lipid synthesis occurs mainly via mTOR-dependent regulation of proteostasis of SREBP-1c. <i>Molecular and Cellular Biochemistry</i> , 2020, 463, 13-31.	3.1	19
42	Occurrence of a Multimeric High-Molecular-Weight Glyceraldehyde-3-phosphate Dehydrogenase in Human Serum. <i>Journal of Proteome Research</i> , 2015, 14, 1645-1656.	3.7	18
43	Interaction of huntingtin with PRMTs and its subsequent arginine methylation affects HTT solubility, phase transition behavior and neuronal toxicity. <i>Human Molecular Genetics</i> , 2022, 31, 1651-1672.	2.9	18
44	Cholera toxin inhibits SNX27-retromer mediated delivery of cargo proteins to the plasma membrane. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	17
45	Lack of the MHC class II chaperone H2-O causes susceptibility to autoimmune diseases. <i>PLoS Biology</i> , 2020, 18, e3000590.	5.6	17
46	Systemic deletion of <i>Atp7b</i> modifies the hepatocytes' response to copper overload in the mouse models of Wilson disease. <i>Scientific Reports</i> , 2021, 11, 5659.	3.3	17
47	Human Breast Milk Enhances Intestinal Mucosal Barrier Function and Innate Immunity in a Healthy Pediatric Human Enteroid Model. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 685171.	3.7	16
48	The Plasma Proteome Is Associated with Anthropometric Status of Undernourished Nepalese School-Aged Children. <i>Journal of Nutrition</i> , 2017, 147, jn243014.	2.9	15
49	C9orf72-associated SMCR8 protein binds in the ubiquitin pathway and with proteins linked with neurological disease. <i>Acta Neuropathologica Communications</i> , 2020, 8, 110.	5.2	15
50	Biological Systems of Vitamin K: A Plasma Nutriproteomics Study of Subclinical Vitamin K Deficiency in 500 Nepalese Children. <i>OMICS A Journal of Integrative Biology</i> , 2016, 20, 214-223.	2.0	13
51	Plasma proteins associated with circulating carotenoids in Nepalese school-aged children. <i>Archives of Biochemistry and Biophysics</i> , 2018, 646, 153-160.	3.0	13
52	Definition of Naturally Processed Peptides Reveals Convergent Presentation of Autoantigenic Topoisomerase I Epitopes in Scleroderma. <i>Arthritis and Rheumatology</i> , 2020, 72, 1375-1384.	5.6	12
53	Lessons from the Hamster: <i>Cricetulus griseus</i> Tissue and CHO Cell Line Proteome Comparison. <i>Journal of Proteome Research</i> , 2017, 16, 3672-3687.	3.7	11
54	Expanded Chinese hamster organ and cell line proteomics profiling reveals tissue-specific functionalities. <i>Scientific Reports</i> , 2020, 10, 15841.	3.3	11

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55	Distorted Immunodominance by Linker Sequences or other Epitopes from a Second Protein Antigen During Antigen-Processing. <i>Scientific Reports</i> , 2017, 7, 46418.	3.3	10
56	Phosphorylation of NHE3-S719 regulates NHE3 activity through the formation of multiple signaling complexes. <i>Molecular Biology of the Cell</i> , 2017, 28, 1754-1767.	2.1	10
57	A methodology for discovering novel brain-relevant peptides: Combination of ribosome profiling and peptidomics. <i>Neuroscience Research</i> , 2020, 151, 31-37.	1.9	10
58	<i>Borrelia burgdorferi</i> -Induced Changes in the Class II Self-Immunoepitome Displayed on HLA-DR Molecules Expressed by Dendritic Cells. <i>Frontiers in Medicine</i> , 2020, 7, 568.	2.6	9
59	Biomonitoring of Ambient Outdoor Air Pollutant Exposure in Humans Using Targeted Serum Albumin Adductomics. <i>Chemical Research in Toxicology</i> , 2021, 34, 1183-1196.	3.3	9
60	Epithelial WNT2B and Desert Hedgehog Are Necessary for Human Colonoid Regeneration after Bacterial Cytotoxin Injury. <i>IScience</i> , 2020, 23, 101618.	4.1	8
61	Immortalized striatal precursor neurons from Huntington's disease patient-derived iPS cells as a platform for target identification and screening for experimental therapeutics. <i>Human Molecular Genetics</i> , 2021, 30, 2469-2487.	2.9	7
62	Diverse mitochondrial abnormalities in a new cellular model of TAFAZZIN deficiency are remediated by cardiolipin-interacting small molecules. <i>Journal of Biological Chemistry</i> , 2021, 297, 101005.	3.4	7
63	Plasma Selenium Protein P Isoform 1 (SEPP1): A Predictor of Selenium Status in Nepalese Children Detected by Plasma Proteomics. <i>International Journal for Vitamin and Nutrition Research</i> , 2017, 87, 1-10.	1.5	7
64	Plasma proteome correlates of lipid and lipoprotein: biomarkers of metabolic diversity and inflammation in children of rural Nepal. <i>Journal of Lipid Research</i> , 2019, 60, 149-160.	4.2	6
65	Deleting a UBE3A substrate rescues impaired hippocampal physiology and learning in Angelman syndrome mice. <i>Scientific Reports</i> , 2021, 11, 19414.	3.3	6
66	Valsartan nanofilaments alter mitochondrial energetics and promote faster healing in diabetic rat wounds. <i>Wound Repair and Regeneration</i> , 2021, 29, 927-937.	3.0	6
67	Novel Plasma Proteins in Nepalese School-aged Children are Associated with a Small Head Size at Birth. <i>Scientific Reports</i> , 2018, 8, 6390.	3.3	5
68	Hepatic Steatosis in the Mouse Model of Wilson Disease Coincides with a Muted Inflammatory Response. <i>American Journal of Pathology</i> , 2022, 192, 146-159.	3.8	5
69	Multiubiquitination of TRPV4 reduces channel activity independent of surface localization. <i>Journal of Biological Chemistry</i> , 2022, 298, 101826.	3.4	5
70	Actomyosin contraction during cellularization is regulated in part by Src64 control of Actin 5C protein levels. <i>Genesis</i> , 2019, 57, e23297.	1.6	4
71	PRINT: A Protein Bioconjugation Method with Exquisite N-terminal Specificity. <i>Scientific Reports</i> , 2016, 5, 18363.	3.3	3
72	The Mitochondrial Ca ²⁺ import complex is altered in ADPKD. <i>Cell Calcium</i> , 2022, 101, 102501.	2.4	3

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73	A proteomics approach to decipher a sticky CHO situation. <i>Biotechnology and Bioengineering</i> , 2022, 119, 2064-2075.	3.3	3
74	Comparative systemomics to elucidate physiological differences between CHO and SP2/O cell lines. <i>Scientific Reports</i> , 2022, 12, 3280.	3.3	2
75	Identification of Synaptic DGK \hat{I} Interactors That Stimulate DGK \hat{I} Activity. <i>Frontiers in Synaptic Neuroscience</i> , 2022, 14, 855673.	2.5	2
76	A versatile design platform for glycoengineering therapeutic antibodies. <i>MAbs</i> , 2022, 14, .	5.2	1
77	Actin turnover is linked to Shiga toxin 1 transcellular transcytosis across intestinal epithelial cells. <i>FASEB Journal</i> , 2007, 21, A587.	0.5	0
78	A Pyruvic Acid Analog Primarily Targets GAPDH To Promote Cancer Cell Death. <i>FASEB Journal</i> , 2009, 23, 678.2.	0.5	0
79	O \hat{a} €GlcNAc, A Novel Paradigm for Regulating Stress \hat{a} €Induced Signal Transduction Pathways. <i>FASEB Journal</i> , 2012, 26, 607.1.	0.5	0
80	Photoaffinity labeling the lipid binding site of mammalian diacylglycerol kinase. <i>FASEB Journal</i> , 2013, 27, 1b87.	0.5	0
81	Effects of Antenatal Micronutrient Supplementation on Plasma Protein Profiles in Nepalese Children. <i>FASEB Journal</i> , 2013, 27, 1080.7.	0.5	0
82	Lack of the MHC class II chaperone H2-O causes susceptibility to autoimmune diseases. , 2020, 18, e3000590.		0
83	Lack of the MHC class II chaperone H2-O causes susceptibility to autoimmune diseases. , 2020, 18, e3000590.		0
84	Lack of the MHC class II chaperone H2-O causes susceptibility to autoimmune diseases. , 2020, 18, e3000590.		0
85	Lack of the MHC class II chaperone H2-O causes susceptibility to autoimmune diseases. , 2020, 18, e3000590.		0
86	Lack of the MHC class II chaperone H2-O causes susceptibility to autoimmune diseases. , 2020, 18, e3000590.		0
87	Lack of the MHC class II chaperone H2-O causes susceptibility to autoimmune diseases. , 2020, 18, e3000590.		0
88	Constructing a Plasma Nutriproteome for Population Assessment: Analytical Considerations. <i>Current Developments in Nutrition</i> , 2022, 6, 770.	0.3	0