

# Brett S Phinney

## List of Publications by Year in descending order

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115  
papers

6,785  
citations

87401

40  
h-index

81351

76  
g-index

121  
all docs

121  
docs citations

121  
times ranked

12097  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metabolic Enzyme Alterations and Astrocyte Dysfunction in a Murine Model of Alexander Disease With Severe Reactive Gliosis. <i>Molecular and Cellular Proteomics</i> , 2022, 21, 100180.	2.5	3
2	Proximity proteomics of C9orf72 dipeptide repeat proteins identifies molecular chaperones as modifiers of poly-GA aggregation. <i>Acta Neuropathologica Communications</i> , 2022, 10, 22.	2.4	22
3	De Novo Arginine Synthesis Is Required for Full Virulence of <i>Xanthomonas arboricola</i> pv. <i>juglandis</i> During Walnut Bacterial Blight Disease. <i>Phytopathology</i> , 2022, 112, 1500-1512.	1.1	4
4	Interactomic analysis reveals a homeostatic role for the HIV restriction factor TRIM5 $\alpha$ in mitophagy. <i>Cell Reports</i> , 2022, 39, 110797.	2.9	11
5	Novel application of automated machine learning with MALDI-TOF-MS for rapid high-throughput screening of COVID-19: a proof of concept. <i>Scientific Reports</i> , 2021, 11, 8219.	1.6	55
6	Quantitative label-free proteomics and biochemical analysis of <i>Phaeodactylum tricornutum</i> cultivation on dairy manure wastewater. <i>Journal of Applied Phycology</i> , 2021, 33, 2105-2121.	1.5	10
7	Divergent and self-reactive immune responses in the CNS of COVID-19 patients with neurological symptoms. <i>Cell Reports Medicine</i> , 2021, 2, 100288.	3.3	121
8	Genome-wide CRISPRi screening identifies OCIAD1 as a prohibitin client and regulatory determinant of mitochondrial Complex III assembly in human cells. <i>ELife</i> , 2021, 10, .	2.8	20
9	AMELY deletion is not detected in systematically sampled reference populations: A Reply to Åtampelj. <i>Journal of Archaeological Science</i> , 2021, 130, 105354.	1.2	8
10	ATG9A protects the plasma membrane from programmed and incidental permeabilization. <i>Nature Cell Biology</i> , 2021, 23, 846-858.	4.6	43
11	Elucidation of familial relationships using hair shaft proteomics. <i>Forensic Science International: Genetics</i> , 2021, 54, 102564.	1.6	6
12	A Secreted Chorismate Mutase from <i>Xanthomonas arboricola</i> pv. <i>juglandis</i> Attenuates Virulence and Walnut Blight Symptoms. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10374.	1.8	2
13	Alternative LC-MS/MS Platforms and Data Acquisition Strategies for Proteomic Genotyping of Human Hair Shafts. <i>Journal of Proteome Research</i> , 2021, 20, 4655-4666.	1.8	2
14	Mammalian hybrid pre-autophagosomal structure HyPAS generates autophagosomes. <i>Cell</i> , 2021, 184, 5950-5969.e22.	13.5	54
15	Galectin-3 Coordinates a Cellular System for Lysosomal Repair and Removal. <i>Developmental Cell</i> , 2020, 52, 69-87.e8.	3.1	198
16	Proteome Analysis of Walnut Bacterial Blight Disease. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7453.	1.8	12
17	A comparison of proteomic, genomic, and osteological methods of archaeological sex estimation. <i>Scientific Reports</i> , 2020, 10, 11897.	1.6	40
18	Comparative Proteomic Analysis of Walnut ( <i>Juglans regia</i> L.) Pellicle Tissues Reveals the Regulation of Nut Quality Attributes. <i>Life</i> , 2020, 10, 314.	1.1	8

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19	Deep Learning Neural Network Prediction Method Improves Proteome Profiling of Vascular Sap of Grapevines during Pierce's Disease Development. <i>Biology</i> , 2020, 9, 261.	1.3	3
20	Optimal processing for proteomic genotyping of single human hairs. <i>Forensic Science International: Genetics</i> , 2020, 47, 102314.	1.6	17
21	Age-Related Changes in Hair Shaft Protein Profiling and Genetically Variant Peptides. <i>Forensic Science International: Genetics</i> , 2020, 47, 102309.	1.6	13
22	MERIT, a cellular system coordinating lysosomal repair, removal and replacement. <i>Autophagy</i> , 2020, 16, 1539-1541.	4.3	19
23	Gender-specific changes in energy metabolism and protein degradation as major pathways affected in livers of mice treated with ibuprofen. <i>Scientific Reports</i> , 2020, 10, 3386.	1.6	17
24	N-terminal protein acetylation by NatB modulates the levels of Nmnats, the NAD <sup>+</sup> biosynthetic enzymes in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2020, 295, 7362-7375.	1.6	6
25	Galectins control MTOR and AMPK in response to lysosomal damage to induce autophagy. <i>Autophagy</i> , 2019, 15, 169-171.	4.3	112
26	Proteome and metabolome analyses reveal differential responses in tomato - <i>Verticillium dahliae</i> -interactions. <i>Journal of Proteomics</i> , 2019, 207, 103449.	1.2	51
27	AtTRAPP11/ROG2: A Role for TRAPPs in Maintenance of the Plant <i>Trans</i> -Golgi Network/Early Endosome Organization and Function. <i>Plant Cell</i> , 2019, 31, 1879-1898.	3.1	26
28	Proteomic genotyping of fingerprint donors with genetically variant peptides. <i>Forensic Science International: Genetics</i> , 2019, 42, 21-30.	1.6	18
29	Proteomic manifestations of genetic defects in autosomal recessive congenital ichthyosis. <i>Journal of Proteomics</i> , 2019, 201, 104-109.	1.2	10
30	Human stratum corneum proteomics reveals cross-linking of a broad spectrum of proteins in cornified envelopes. <i>Experimental Dermatology</i> , 2019, 28, 618-622.	1.4	27
31	Comparison of protein expression levels and proteomically-inferred genotypes using human hair from different body sites. <i>Forensic Science International: Genetics</i> , 2019, 41, 19-23.	1.6	17
32	Physiological profile of undifferentiated bovine blastocyst-derived trophoblasts. <i>Biology Open</i> , 2019, 8, .	0.6	16
33	Sex estimation using sexually dimorphic amelogenin protein fragments in human enamel. <i>Journal of Archaeological Science</i> , 2019, 101, 169-180.	1.2	53
34	Cornification of nail keratinocytes requires autophagy for bulk degradation of intracellular proteins while sparing components of the cytoskeleton. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2019, 24, 62-73.	2.2	18
35	Prioritization of metabolic genes as novel therapeutic targets in estrogen-receptor negative breast tumors using multi-omics data and text mining. <i>Oncotarget</i> , 2019, 10, 3894-3909.	0.8	11
36	Galectins Control mTOR in Response to Endomembrane Damage. <i>Molecular Cell</i> , 2018, 70, 120-135.e8.	4.5	191

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37	A functional link between NAD <sup>+</sup> homeostasis and N-terminal protein acetylation in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2018, 293, 2927-2938.	1.6	18
38	Glaucomatous cell derived matrices differentially modulate non-glaucomatous trabecular meshwork cellular behavior. <i>Acta Biomaterialia</i> , 2018, 71, 444-459.	4.1	51
39	MK2 Regulates Macrophage Chemokine Activity and Recruitment to Promote Colon Tumor Growth. <i>Frontiers in Immunology</i> , 2018, 9, 1857.	2.2	21
40	Corneocyte proteomics: Applications to skin biology and dermatology. <i>Experimental Dermatology</i> , 2018, 27, 931-938.	1.4	12
41	Proteomic analysis of hair shafts from monozygotic twins: Expression profiles and genetically variant peptides. <i>Proteomics</i> , 2017, 17, 1600462.	1.3	21
42	Integrated Metabolomics and Proteomics Highlight Altered Nicotinamide- and Polyamine Pathways in Lung Adenocarcinoma. <i>Carcinogenesis</i> , 2017, 38, bgw205.	1.3	56
43	In vivo digestomics of milk proteins in human milk and infant formula using a suckling rat pup model. <i>Peptides</i> , 2017, 88, 18-31.	1.2	27
44	ABRF Proteome Informatics Research Group (iPRG) 2015 Study: Detection of Differentially Abundant Proteins in Label-Free Quantitative LC-MS/MS Experiments. <i>Journal of Proteome Research</i> , 2017, 16, 945-957.	1.8	42
45	Omega-6 and omega-3 oxylipins are implicated in soybean oil-induced obesity in mice. <i>Scientific Reports</i> , 2017, 7, 12488.	1.6	46
46	Absolute Quantification of Human Milk Caseins and the Whey/Casein Ratio during the First Year of Lactation. <i>Journal of Proteome Research</i> , 2017, 16, 4113-4121.	1.8	69
47	Proteomes of <i>Lactobacillus delbrueckii</i> subsp. <i>bulgaricus</i> LBB.B5 Incubated in Milk at Optimal and Low Temperatures. <i>MSystems</i> , 2017, 2, .	1.7	8
48	Proteomic profiling of <i>Pachyonychia congenita</i> plantar callus. <i>Journal of Proteomics</i> , 2017, 165, 132-137.	1.2	11
49	A Cysteine-Rich Protein Kinase Associates with a Membrane Immune Complex and the Cysteine Residues Are Required for Cell Death. <i>Plant Physiology</i> , 2017, 173, 771-787.	2.3	134
50	The Metalloprotease, Mpr1, Engages AnnexinA2 to Promote the Transcytosis of Fungal Cells across the Blood-Brain Barrier. <i>Frontiers in Cellular and Infection Microbiology</i> , 2017, 7, 296.	1.8	31
51	Biochemical and biomechanical properties of the pacemaking sinoatrial node extracellular matrix are distinct from contractile left ventricular matrix. <i>PLoS ONE</i> , 2017, 12, e0185125.	1.1	26
52	Profiling of proteins secreted in the bovine oviduct reveals diverse functions of this luminal microenvironment. <i>PLoS ONE</i> , 2017, 12, e0188105.	1.1	40
53	Abstract A14: Proteomic analysis of paired malignant and non-malignant tissues from patients with NSCLC adenocarcinoma identified changes in translation initiation factors potentially important in oncogenesis. , 2017, , .		0
54	Psychosocial Pathways Linking Adverse Childhood Experiences to Mental Health in Recently Deployed Canadian Military Service Members. <i>Journal of Traumatic Stress</i> , 2016, 29, 124-131.	1.0	17

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55	The Secreted Protease PrtA Controls Cell Growth, Biofilm Formation and Pathogenicity in <i>Xylella fastidiosa</i> . <i>Scientific Reports</i> , 2016, 6, 31098.	1.6	42
56	Glycoproteomic Analysis of Malignant Ovarian Cancer Ascites Fluid Identifies Unusual Glycopeptides. <i>Journal of Proteome Research</i> , 2016, 15, 3358-3376.	1.8	28
57	Using LC-MS Based Methods for Testing the Digestibility of a Nonpurified Transgenic Membrane Protein in Simulated Gastric Fluid. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 5251-5259.	2.4	4
58	Proteomic Analysis of Loricrin Knockout Mouse Epidermis. <i>Journal of Proteome Research</i> , 2016, 15, 2560-2566.	1.8	25
59	Gram-negative bacterial molecules associate with Alzheimer disease pathology. <i>Neurology</i> , 2016, 87, 2324-2332.	1.5	374
60	Proteomic profiling of lung adenocarcinoma indicates heightened DNA repair, antioxidant mechanisms and identifies LASP1 as a potential negative predictor of survival. <i>Clinical Proteomics</i> , 2016, 13, 31.	1.1	39
61	Dexamethasone Stiffens Trabecular Meshwork, Trabecular Meshwork Cells, and Matrix. , 2015, 56, 4447.		132
62	The 2012/2013 ABRF Proteomic Research Group Study: Assessing Longitudinal Intralaboratory Variability in Routine Peptide Liquid Chromatography Tandem Mass Spectrometry Analyses*. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 3299-3309.	2.5	11
63	<i>Anopheles stephensi</i> p38 MAPK signaling regulates innate immunity and bioenergetics during <i>Plasmodium falciparum</i> infection. <i>Parasites and Vectors</i> , 2015, 8, 424.	1.0	18
64	The Human Colostrum Whey Proteome Is Altered in Gestational Diabetes Mellitus. <i>Journal of Proteome Research</i> , 2015, 14, 512-520.	1.8	33
65	Transforming Growth Factor Beta 3 Modifies Mechanics and Composition of Extracellular Matrix Deposited by Human Trabecular Meshwork Cells. <i>ACS Biomaterials Science and Engineering</i> , 2015, 1, 110-118.	2.6	23
66	Comparative Proteomics of Human and Macaque Milk Reveals Species-Specific Nutrition during Postnatal Development. <i>Journal of Proteome Research</i> , 2015, 14, 2143-2157.	1.8	60
67	<i>Lactobacillus casei</i> Low-Temperature, Dairy-Associated Proteome Promotes Persistence in the Mammalian Digestive Tract. <i>Journal of Proteome Research</i> , 2015, 14, 3136-3147.	1.8	16
68	Gene expression profiling in pachyonychia congenita skin. <i>Journal of Dermatological Science</i> , 2015, 77, 156-165.	1.0	33
69	CaMKII Phosphorylation of Na <sup>v</sup> 1.5: Novel in Vitro Sites Identified by Mass Spectrometry and Reduced S516 Phosphorylation in Human Heart Failure. <i>Journal of Proteome Research</i> , 2015, 14, 2298-2311.	1.8	36
70	Mitochondrial proteome remodeling in ischemic heart failure. <i>Life Sciences</i> , 2014, 101, 27-36.	2.0	42
71	Shotgun Proteomic Analysis Unveils Survival and Detoxification Strategies by <i>Caulobacter crescentus</i> during Exposure to Uranium, Chromium, and Cadmium. <i>Journal of Proteome Research</i> , 2014, 13, 1833-1847.	1.8	56
72	Human hair shaft proteomic profiling: individual differences, site specificity and cuticle analysis. <i>PeerJ</i> , 2014, 2, e506.	0.9	49

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73	Cryptococcus neoformans Promotes Its Transmigration into the Central Nervous System by Inducing Molecular and Cellular Changes in Brain Endothelial Cells. <i>Infection and Immunity</i> , 2013, 81, 3139-3147.	1.0	57
74	Interlaboratory studies and initiatives developing standards for proteomics. <i>Proteomics</i> , 2013, 13, 904-909.	1.3	29
75	Proteomic Analysis of Human Keratinocyte Response to 2,3,7,8-Tetrachlorodibenzo- <i>p</i> -Dioxin (TCDD) Exposure. <i>Journal of Proteome Research</i> , 2013, 12, 5340-5347.	1.8	16
76	Sustained Activation of Akt Elicits Mitochondrial Dysfunction to Block Plasmodium falciparum Infection in the Mosquito Host. <i>PLoS Pathogens</i> , 2013, 9, e1003180.	2.1	52
77	Distinguishing Ichthyoses by Protein Profiling. <i>PLoS ONE</i> , 2013, 8, e75355.	1.1	30
78	Differentiating Inbred Mouse Strains from Each Other and Those with Single Gene Mutations Using Hair Proteomics. <i>PLoS ONE</i> , 2012, 7, e51956.	1.1	25
79	Quantitative Proteomics Reveals Dynamic Changes in the Plasma Membrane During Arabidopsis Immune Signaling. <i>Molecular and Cellular Proteomics</i> , 2012, 11, M111.014555.	2.5	100
80	Enhancing Peptide Ligand Binding to Vascular Endothelial Growth Factor by Covalent Bond Formation. <i>Bioconjugate Chemistry</i> , 2012, 23, 1080-1089.	1.8	15
81	Label-free shotgun proteomics and metabolite analysis reveal a significant metabolic shift during citrus fruit development. <i>Journal of Experimental Botany</i> , 2011, 62, 5367-5384.	2.4	98
82	Proteomic Characterization of Specific Minor Proteins in the Human Milk Casein Fraction. <i>Journal of Proteome Research</i> , 2011, 10, 5409-5415.	1.8	29
83	Proteomic Characterization of Human Milk Whey Proteins during a Twelve-Month Lactation Period. <i>Journal of Proteome Research</i> , 2011, 10, 1746-1754.	1.8	142
84	Proteomic Characterization of Human Milk Fat Globule Membrane Proteins during a 12 Month Lactation Period. <i>Journal of Proteome Research</i> , 2011, 10, 3530-3541.	1.8	124
85	REVEILLE8 and PSEUDO-RESPONSE REGULATOR5 Form a Negative Feedback Loop within the Arabidopsis Circadian Clock. <i>PLoS Genetics</i> , 2011, 7, e1001350.	1.5	215
86	Phosphorylation and Activation of the Plasma Membrane Na <sup>+</sup> /H <sup>+</sup> Exchanger (NHE1) during Osmotic Cell Shrinkage. <i>PLoS ONE</i> , 2011, 6, e29210.	1.1	15
87	ABRF-PRG07: advanced quantitative proteomics study. <i>Journal of Biomolecular Techniques</i> , 2011, 22, 21-6.	0.8	13
88	The Significance of Protein Maturation by Plastidic Type I Signal Peptidase 1 for Thylakoid Development in Arabidopsis Chloroplasts. <i>Plant Physiology</i> , 2010, 152, 1297-1308.	2.3	46
89	A label-free differential quantitative mass spectrometry method for the characterization and identification of protein changes during citrus fruit development. <i>Proteome Science</i> , 2010, 8, 68.	0.7	44
90	Proteomic Analysis of Human Nail Plate. <i>Journal of Proteome Research</i> , 2010, 9, 6752-6758.	1.8	54

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91	A comparative study of in-gel digestions using microwave and pressure-accelerated technologies. <i>Journal of Biomolecular Techniques</i> , 2010, 21, 148-55.	0.8	10
92	Analysis of the Pumpkin Phloem Proteome Provides Insights into Angiosperm Sieve Tube Function. <i>Molecular and Cellular Proteomics</i> , 2009, 8, 343-356.	2.5	190
93	Reanalysis of <i>Tyrannosaurus rex</i> Mass Spectra. <i>Journal of Proteome Research</i> , 2009, 8, 4328-4332.	1.8	62
94	In vivo multiplex quantitative analysis of 3 forms of alpha melanocyte stimulating hormone in pituitary of prolid endopeptidase deficient mice. <i>Molecular Brain</i> , 2009, 2, 14.	1.3	18
95	Polygalacturonase causes lygus-like damage on plants: cloning and identification of western tarnished plant bug ( <i>Lygus hesperus</i> ) polygalacturonases secreted during feeding. <i>Arthropod-Plant Interactions</i> , 2008, 2, 215-225.	0.5	32
96	FLOWERING LOCUS T Protein May Act as the Long-Distance Florigenic Signal in the Cucurbits. <i>Plant Cell</i> , 2007, 19, 1488-1506.	3.1	420
97	The Association of Biomolecular Resource Facilities Proteomics Research Group 2006 Study. <i>Molecular and Cellular Proteomics</i> , 2007, 6, 1291-1298.	2.5	100
98	Shotgun Cross-Linking Analysis for Studying Quaternary and Tertiary Protein Structures. <i>Journal of Proteome Research</i> , 2007, 6, 3908-3917.	1.8	56
99	Protein Changes in the Albedo of Citrus Fruits on Postharvesting Storage. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 9047-9053.	2.4	37
100	Determining the Overall Merit of Protein Identification Data Sets: $\rho$ -Diagrams and $\rho$ -Scores. <i>Journal of Proteome Research</i> , 2007, 6, 1997-2004.	1.8	12
101	Protein Variations in <i>Listeria monocytogenes</i> Exposed to Sodium Lactate, Sodium Diacetate, and Their Combination. <i>Journal of Food Protection</i> , 2007, 70, 58-64.	0.8	9
102	An experimental strategy for quantitative analysis of the humoral immune response to prostate cancer antigens using natural protein microarrays. <i>Proteomics - Clinical Applications</i> , 2007, 1, 494-505.	0.8	3
103	Extracellular glycosylphosphatidylinositol-anchored mannoproteins and proteases of <i>Cryptococcus neoformans</i> . <i>FEMS Yeast Research</i> , 2007, 7, 499-510.	1.1	75
104	The citrus fruit proteome: insights into citrus fruit metabolism. <i>Planta</i> , 2007, 226, 989-1005.	1.6	93
105	Global Analysis of Protein Palmitoylation in Yeast. <i>Cell</i> , 2006, 125, 1003-1013.	13.5	480
106	Interaction of Arabidopsis BRASSINOSTEROID-INSENSITIVE 1 receptor kinase with a homolog of mammalian TGF- $\beta$ 2 receptor interacting protein. <i>Plant Journal</i> , 2005, 43, 251-261.	2.8	69
107	From The Cover: Jasmonate-inducible plant enzymes degrade essential amino acids in the herbivore midgut. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 19237-19242.	3.3	321
108	Identification and Functional Analysis of in Vivo Phosphorylation Sites of the Arabidopsis BRASSINOSTEROID-INSENSITIVE1 Receptor Kinase. <i>Plant Cell</i> , 2005, 17, 1685-1703.	3.1	364

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109	Proteomic Characterization of A Triton-Insoluble Fraction from Chloroplasts Defines A Novel Group of Proteins Associated with Macromolecular Structures. Journal of Proteome Research, 2005, 4, 497-506.	1.8	38
110	Defective glycosylation of calsequestrin in heart failure. Cardiovascular Research, 2004, 63, 264-272.	1.8	44
111	Proteomic Study of the Arabidopsis thaliana Chloroplastic Envelope Membrane Utilizing Alternatives to Traditional Two-Dimensional Electrophoresis. Journal of Proteome Research, 2003, 2, 413-425.	1.8	275
112	Identification of in Vivo Phosphorylation Sites of MLK3 by Mass Spectrometry and Phosphopeptide Mapping. Biochemistry, 2002, 41, 5613-5624.	1.2	36
113	Sindbis Virus Glycoprotein E1 Is Divided into Two Discrete Domains at Amino Acid 129 by Disulfide Bridge Connections. Journal of Virology, 2000, 74, 9313-9316.	1.5	8
114	The Surface Conformation of Sindbis Virus Glycoproteins E1 and E2 at Neutral and Low pH, as Determined by Mass Spectrometry-Based Mapping. Journal of Virology, 2000, 74, 5667-5678.	1.5	27
115	Identification of Endogenous Peptides in Nasal Swab Transport Media used in MALDI-TOF-MS Based COVID-19 Screening. ACS Omega, 0, , .	1.6	2