Rebekah L Gundry

List of Publications by Year
in descending order

66 papers	2,273 citations	279701 23 h-index	233338 45 g-index
76 all docs	76 docs citations	76 times ranked	3822 citing authors

#	Article	IF	Citations
1	A Mass Spectrometric-Derived Cell Surface Protein Atlas. PLoS ONE, 2015, 10, e0121314.	1.1	356
2	Preparation of Proteins and Peptides for Mass Spectrometry Analysis in a Bottomâ€Up Proteomics Workflow. Current Protocols in Molecular Biology, 2010, 90, Unit10.25.	2.9	184
3	Investigation of an albumin-enriched fraction of human serum and its albuminome. Proteomics - Clinical Applications, 2007, 1, 73-88.	0.8	165
4	A high-stringency blueprint of the human proteome. Nature Communications, 2020, 11, 5301.	5.8	152
5	Cleavage of cystatin C in the cerebrospinal fluid of patients with multiple sclerosis. Annals of Neurology, 2006, 59, 237-247.	2.8	91
6	A Human Pluripotent Stem Cell Surface N-Glycoproteome Resource Reveals Markers, Extracellular Epitopes, and Drug Targets. Stem Cell Reports, 2014, 3, 185-203.	2.3	73
7	Heart Disease, Clinical Proteomics and Mass Spectrometry. Disease Markers, 2004, 20, 167-178.	0.6	72
8	4-Aminopiperidine-4-carboxylic Acid:Â A Cyclic Î±,Î±-Disubstituted Amino Acid for Preparation of Water-Soluble Highly Helical Peptides. Journal of Organic Chemistry, 1996, 61, 7650-7651.	1.7	70
9	The Mouse C2C12 Myoblast Cell Surface N-Linked Glycoproteome. Molecular and Cellular Proteomics, 2009, 8, 2555-2569.	2.5	68
10	Assessment of albumin removal from an immunoaffinity spin column: Critical implications for proteomic examination of the albuminome and albuminâ€depleted samples. Proteomics, 2009, 9, 2021-2028.	1.3	64
11	Standardization of PGC-LC-MS-based glycomics for sample specific glycotyping. Analyst, The, 2019, 144, 3601-3612.	1.7	63
12	A Cell Surfaceome Map for Immunophenotyping and Sorting Pluripotent Stem Cells. Molecular and Cellular Proteomics, 2012, 11, 303-316.	2.5	58
13	Combine and Conquer: Surfactants, Solvents, and Chaotropes for Robust Mass Spectrometry Based Analyses of Membrane Proteins. Analytical Chemistry, 2014, 86, 1551-1559.	3.2	57
14	High Efficiency Differentiation of Human Pluripotent Stem Cells to Cardiomyocytes and Characterization by Flow Cytometry. Journal of Visualized Experiments, 2014, , 52010.	0.2	56
15	Mitochondrial DNA Analysis of the Domestic Dog: Control Region Variation Within and Among Breeds. Journal of Forensic Sciences, 2007, 52, 562-572.	0.9	52
16	Mapping the Cell-Surface N-Glycoproteome of Human Hepatocytes Reveals Markers for Selecting a Homogeneous Population of iPSC-Derived Hepatocytes. Stem Cell Reports, 2016, 7, 543-556.	2.3	44
17	A novel role for proteomics in the discovery of cellâ€surface markers on stem cells: Scratching the surface. Proteomics - Clinical Applications, 2008, 2, 892-903.	0.8	37
18	SurfaceGenie: a web-based application for prioritizing cell-type-specific marker candidates. Bioinformatics, 2020, 36, 3447-3456.	1.8	37

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19	SP2: Rapid and Automatable Contaminant Removal from Peptide Samples for Proteomic Analyses. Journal of Proteome Research, 2019, 18, 1644-1656.	1.8	36
20	The cell surface marker CD36 selectively identifies matured, mitochondria-rich hPSC-cardiomyocytes. Cell Research, 2020, 30, 626-629.	5.7	36
21	Activin-A and Bmp4 Levels Modulate Cell Type Specification during CHIR-Induced Cardiomyogenesis. PLoS ONE, 2015, 10, e0118670.	1.1	29
22	Disposable Hydrophobic Surface on MALDI Targets for Enhancing MS and MS/MS Data of Peptides. Analytical Chemistry, 2005, 77, 6609-6617.	3.2	26
23	Embryonic Stem Cell-Derived Cardiomyocyte Heterogeneity and the Isolation of Immature and Committed Cells for Cardiac Remodeling and Regeneration. Stem Cells International, 2011, 2011, 1-10.	1.2	25
24	Inhibition of an NAD+ Salvage Pathway Provides Efficient and Selective Toxicity to Human Pluripotent Stem Cells. Stem Cells Translational Medicine, 2015, 4, 483-493.	1.6	24
25	Mortalin (HSPA9) facilitates BRAF -mutant tumor cell survival by suppressing ANT3-mediated mitochondrial membrane permeability. Science Signaling, 2020, 13, .	1.6	24
26	Concise Review: Cell Surface N-Linked Glycoproteins as Potential Stem Cell Markers and Drug Targets. Stem Cells Translational Medicine, 2017, 6, 131-138.	1.6	21
27	Pluripotent stem cell heterogeneity and the evolving role of proteomic technologies in stem cell biology. Proteomics, 2011, 11, 3947-3961.	1.3	20
28	Structure-Function Analysis of CCL28 in the Development of Post-viral Asthma. Journal of Biological Chemistry, 2015, 290, 4528-4536.	1.6	19
29	Nâ€glycoprotein surfaceome of human induced pluripotent stem cell derived hepatic endoderm. Proteomics, 2017, 17, 1600397.	1.3	19
30	Cell Surface Proteomics of N-Linked Glycoproteins for Typing of Human Lymphocytes. Proteomics, 2017, 17, 1700156.	1.3	18
31	Reference glycan structure libraries of primary human cardiomyocytes and pluripotent stem cell-derived cardiomyocytes reveal cell-type and culture stage-specific glycan phenotypes. Journal of Molecular and Cellular Cardiology, 2020, 139, 33-46.	0.9	18
32	Assessment of Streptavidin Bead Binding Capacity to Improve Quality of Streptavidin-based Enrichment Studies. Journal of Proteome Research, 2021, 20, 1153-1164.	1.8	18
33	Expanding the mouse embryonic stem cell proteome: Combining three proteomic approaches. Proteomics, 2010, 10, 2728-2732.	1.3	17
34	Tandem Time-of-Flight (TOF/TOF) Mass Spectrometry and Proteomics. Journal of the Mass Spectrometry Society of Japan, 2005, 53, 7-17.	0.0	14
35	Are These Cardiomyocytes? Protocol Development Reveals Impact of Sample Preparation on the Accuracy of Identifying Cardiomyocytes by Flow Cytometry. Stem Cell Reports, 2019, 12, 395-410.	2.3	14
36	Plasma Metabolome Normalization in Rheumatoid Arthritis Following Initiation of Methotrexate and the Identification of Metabolic Biomarkers of Efficacy. Metabolites, 2021, 11, 824.	1.3	14

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37	Discovery and validation of surfaceN-glycoproteins in MM cell lines and patient samples uncovers immunotherapy targets. , 2020, 8, e000915.		13
38	CIRFESS: An Interactive Resource for Querying the Set of Theoretically Detectable Peptides for Cell Surface and Extracellular Enrichment Proteomic Studies. Journal of the American Society for Mass Spectrometry, 2020, 31, 1389-1397.	1.2	13
39	Nâ€glycoprotein surfaceomes of four developmentally distinct mouse cell types. Proteomics - Clinical Applications, 2014, 8, 603-609.	0.8	12
40	Unraveling the Complexity of Circulating Forms of Brain Natriuretic Peptide. Clinical Chemistry, 2007, 53, 1181-1182.	1.5	11
41	Mass Spectrometry-Based Identification of Extracellular Domains of Cell Surface N-Glycoproteins: Defining the Accessible Surfaceome for Immunophenotyping Stem Cells and Their Derivatives. Methods in Molecular Biology, 2018, 1722, 57-78.	0.4	10
42	Facile Preparation of Peptides for Mass Spectrometry Analysis in Bottomâ€Up Proteomics Workflows. Current Protocols, 2021, 1, e85.	1.3	10
43	When does a fingerprint constitute a diagnostic?. Lancet, The, 2006, 368, 971-973.	6.3	9
44	Bottom-up proteomic analysis of human adult cardiac tissue and isolated cardiomyocytes. Journal of Molecular and Cellular Cardiology, 2022, 162, 20-31.	0.9	9
45	The effects of maturation and aging on the rotator cuff tendonâ€toâ€bone interface. FASEB Journal, 2021, 35, e22066.	0.2	9
46	Human ESC/iPSC-based â€˜omicsâ€™ and bioinformatics for translational research. Drug Discovery Today: Disease Models, 2012, 9, e161-e170.	1.2	8
47	Importance of evaluating protein glycosylation in pluripotent stem cell-derived cardiomyocytes for research and clinical applications. Pflugers Archiv European Journal of Physiology, 2021, 473, 1041-1059.	1.3	8
48	Quantitative Top-Down Mass Spectrometry Identifies Proteoforms Differentially Released during Mechanical Stimulation of Mouse Skin. Journal of Proteome Research, 2018, 17, 2635-2648.	1.8	7
49	UbcH5 Interacts with Substrates to Participate in Lysine Selection with the E3 Ubiquitin Ligase CHIP. Biochemistry, 2020, 59, 2078-2088.	1.2	7
50	COVID-19 and cardiovascular disease: What we know, what we think we know, and what we need to know. Journal of Molecular and Cellular Cardiology, 2020, 144, 12-14.	0.9	7
51	Sexual Dimorphic Role of CD14 (Cluster of Differentiation 14) in Salt-Sensitive Hypertension and Renal Injury. Hypertension, 2021, 77, 228-240.	1.3	7
52	The Roseoloviruses Downregulate the Protein Tyrosine Phosphatase PTPRC (CD45). Journal of Virology, 2021, 95, e0162820.	1.5	7
53	Reliable Protocols for Flow Cytometry Analysis of Intracellular Proteins in Pluripotent Stem Cell Derivatives: A Fitâ€Forâ€Purpose Approach. Current Protocols in Stem Cell Biology, 2019, 50, e94.	3.0	5
54	Quantitative proteomic analysis of aqueous humor after rabbit lensectomy reveals differences in coagulation and immunomodulatory proteins. Molecular Omics, 2020, 16, 126-137.	1.4	5

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55	Characterization and statistical modeling of glycosylation changes in sickle cell disease. Blood Advances, 2021, 5, 1463-1473.	2.5	5
56	Plasma metabolomic profiling as a tool to identify predictive biomarkers of methotrexate efficacy in rheumatoid arthritis. Seminars in Arthritis and Rheumatism, 2022, 56, 152056.	1.6	4
57	Cardiomyocyte Differentiation Promotes Cell Survival During Nicotinamide Phosphoribosyltransferase Inhibition Through Increased Maintenance of Cellular Energy Stores. Stem Cells Translational Medicine, 2017, 6, 1191-1201.	1.6	3
58	A call to adopt a â€œfit for purposeâ€•approach to antibody validation for flow cytometry analyses of stem cell models and beyond. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 317, H954-H957.	1.5	3
59	Hold or foldâ€”Proteins in advanced heart failure and myocardial recovery. Proteomics - Clinical Applications, 2015, 9, 121-133.	0.8	2
60	Bacterial expression of the phosphodiester-binding site of the cation-independent mannose 6-phosphate receptor for crystallographic and NMR studies. Protein Expression and Purification, 2015, 111, 91-97.	0.6	1
61	Front Cover: Cell Surface Proteomics of N-Linked Glycoproteins for Typing of Human Lymphocytes. Proteomics, 2017, 17, 1770141.	1.3	1
62	Stem Cell Proteomics. , 2016, , 123-153.		0
63	Bioinformatics for Mass Spectrometry-Based Proteomics. , 2016, , 99-112.		0
64	Secrets of Cardiac Remodeling Revealed in the Secretome. Circulation, 2020, 141, 1645-1647.	1.6	0
65	Cutting edge technologies in cardiovascular research. Journal of Molecular and Cellular Cardiology, 2020, 142, 154.	0.9	0
66	Using an Investigative Journalism Approach to Design Mechanistic Experiments in Physiology. Physiology, 2020, 35, 218-219.	1.6	0