Kirk C Hansen

List of Publications by Year
in descending order

175 papers	9,879 citations	28274 55 h-index	51608 86 g-index
193 all docs	193 docs citations	193 times ranked	13671 citing authors

#	Article	IF	Citations
1	Genotype tunes pancreatic ductal adenocarcinoma tissue tension to induce matricellular fibrosis and tumor progression. Nature Medicine, 2016, 22, 497-505.	30.7	456
2	COVID-19 infection alters kynurenine and fatty acid metabolism, correlating with IL-6 levels and renal status. JCI Insight, 2020, 5, .	5.0	412
3	An update on red blood cell storage lesions, as gleaned through biochemistry and omics technologies. Transfusion, 2015, 55, 205-219.	1.6	297
4	A TDO2-AhR Signaling Axis Facilitates Anoikis Resistance and Metastasis in Triple-Negative Breast Cancer. Cancer Research, 2015, 75, 4651-4664.	0.9	216
5	Targeting the perivascular niche sensitizes disseminated tumour cells to chemotherapy. Nature Cell Biology, 2019, 21, 238-250.	10.3	208
6	A threeâ€minute method for highâ€throughput quantitative metabolomics and quantitative tracing experiments of central carbon and nitrogen pathways. Rapid Communications in Mass Spectrometry, 2017, 31, 663-673.	1.5	203
7	Extracellular matrix in lung development, homeostasis and disease. Matrix Biology, 2018, 73, 77-104.	3.6	200
8	Evidence of Structural Protein Damage and Membrane Lipid Remodeling in Red Blood Cells from COVID-19 Patients. Journal of Proteome Research, 2020, 19, 4455-4469.	3.7	189
9	Oxidative modifications of glyceraldehyde 3-phosphate dehydrogenase regulate metabolic reprogramming of stored red blood cells. Blood, 2016, 128, e32-e42.	1.4	183
10	High-Throughput Metabolomics: Isocratic and Gradient Mass Spectrometry-Based Methods. Methods in Molecular Biology, 2019, 1978, 13-26.	0.9	176
11	Sphingosine-1-phosphate promotes erythrocyte glycolysis and oxygen release for adaptation to high-altitude hypoxia. Nature Communications, 2016, 7, 12086.	12.8	163
12	Serum Proteomics in COVID-19 Patients: Altered Coagulation and Complement Status as a Function of IL-6 Level. Journal of Proteome Research, 2020, 19, 4417-4427.	3.7	155
13	Three-minute method for amino acid analysis by UHPLC and high-resolution quadrupole orbitrap mass spectrometry. Amino Acids, 2015, 47, 2345-2357.	2.7	131
14	Quantification of Extracellular Matrix Proteins from a Rat Lung Scaffold to Provide a Molecular Readout for Tissue Engineering. Molecular and Cellular Proteomics, 2015, 14, 961-973.	3.8	131
15	Hypoxia modulates the purine salvage pathway and decreases red blood cell and supernatant levels of hypoxanthine during refrigerated storage. Haematologica, 2018, 103, 361-372.	3.5	131
16	Microcephaly disease gene Wdr62 regulates mitotic progression of embryonic neural stem cells and brain size. Nature Communications, 2014, 5, 3885.	12.8	130
17	Tumour-associated macrophages drive stromal cell-dependent collagen crosslinking and stiffening to promote breast cancer aggression. Nature Materials, 2021, 20, 548-559.	27.5	125
18	Routine storage of red blood cell (<scp>RBC</scp>) units in additive solutionâ€3: a comprehensive investigation of the <scp>RBC</scp> metabolome. Transfusion, 2015, 55, 1155-1168.	1.6	117

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19	Biomarkers defining the metabolic age of red blood cells during cold storage. Blood, 2016, 128, e43-e50.	1.4	115
20	Beneficial Role of Erythrocyte Adenosine A2B Receptorâ€“Mediated AMP-Activated Protein Kinase Activation in High-Altitude Hypoxia. Circulation, 2016, 134, 405-421.	1.6	115
21	A unified mechanism for intron and exon definition and back-splicing. Nature, 2019, 573, 375-380.	27.8	114
22	Targeting Glutamine Metabolism and Redox State for Leukemia Therapy. Clinical Cancer Research, 2019, 25, 4079-4090.	7.0	113
23	Lin28 promotes the proliferative capacity of neural progenitor cells in brain development. Development (Cambridge), 2015, 142, 1616-1627.	2.5	109
24	Metabolic Reprogramming Regulates the Proliferative and Inflammatory Phenotype of Adventitial Fibroblasts in Pulmonary Hypertension Through the Transcriptional Corepressor C-Terminal Binding Protein-1. Circulation, 2016, 134, 1105-1121.	1.6	107
25	Glucose 6-phosphate dehydrogenase deficient subjects may be better â€œstorersâ€•than donors of red blood cells. Free Radical Biology and Medicine, 2016, 96, 152-165.	2.9	105
26	Metabolomics in transfusion medicine. Transfusion, 2016, 56, 980-993.	1.6	104
27	Targeted proteomics effectively quantifies differences between native lung and detergent-decellularized lung extracellular matrices. Acta Biomaterialia, 2016, 46, 91-100.	8.3	103
28	A tension-mediated glycocalyxâ€“integrin feedback loop promotes mesenchymal-like glioblastoma. Nature Cell Biology, 2018, 20, 1203-1214.	10.3	103
29	Proteomics: current techniques and potential applications to lung disease. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2004, 287, L1-L23.	2.9	99
30	AltitudeOmics: Red Blood Cell Metabolic Adaptation to High Altitude Hypoxia. Journal of Proteome Research, 2016, 15, 3883-3895.	3.7	98
31	Quantification of decellularized human myocardial matrix: A comparison of six patients. Proteomics - Clinical Applications, 2016, 10, 75-83.	1.6	97
32	Citrate metabolism in red blood cells stored in additive solutionâ€3. Transfusion, 2017, 57, 325-336.	1.6	93
33	An In-solution Ultrasonication-assisted Digestion Method for Improved Extracellular Matrix Proteome Coverage. Molecular and Cellular Proteomics, 2009, 8, 1648-1657.	3.8	90
34	The neutrophil alloantigen HNA-3a (5b) is located on choline transporter-like protein 2 and appears to be encoded by an R>Q154 amino acid substitution. Blood, 2010, 115, 2073-2076.	1.4	90
35	Quantitative extracellular matrix proteomics to study mammary and liver tissue microenvironments. International Journal of Biochemistry and Cell Biology, 2016, 81, 223-232.	2.8	89
36	Collagen architecture in pregnancy-induced protection from breast cancer. Journal of Cell Science, 2013, 126, 4108-10.	2.0	87

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37	Interleukin 37 reverses the metabolic cost of inflammation, increases oxidative respiration, and improves exercise tolerance. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2313-2318.	7.1	87
38	Structure of the yeast spliceosomal postcatalytic P complex. Science, 2017, 358, 1278-1283.	12.6	87
39	Lymph formation, composition and circulation: a proteomics perspective. International Immunology, 2015, 27, 219-227.	4.0	83
40	Extracellular Matrix Hydrogel Promotes Tissue Remodeling, Arteriogenesis, and Perfusion in a Rat Hindlimb Ischemia Model. JACC Basic To Translational Science, 2016, 1, 32-44.	4.1	83
41	Alterations in extracellular matrix composition during aging and photoaging of the skin. Matrix Biology Plus, 2020, 8, 100041.	3.5	83
42	ATM/G6PD-driven redox metabolism promotes FLT3 inhibitor resistance in acute myeloid leukemia. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6669-E6678.	7.1	82
43	Erythrocytes retain hypoxic adenosine response for faster acclimatization upon re-ascent. Nature Communications, 2017, 8, 14108.	12.8	81
44	Red blood cell proteomics update: is there more to discover?. Blood Transfusion, 2017, 15, 182-187.	0.4	76
45	Hemoglobin oxidation at functional amino acid residues during routine storage of red blood cells. Transfusion, 2016, 56, 421-426.	1.6	75
46	Preserved Proteins from Extinct Bison latifrons Identified by Tandem Mass Spectrometry; Hydroxylysine Glycosides are a Common Feature of Ancient Collagen. Molecular and Cellular Proteomics, 2015, 14, 1946-1958.	3.8	73
47	Stiff stroma increases breast cancer risk by inducing the oncogene ZNF217. Journal of Clinical Investigation, 2020, 130, 5721-5737.	8.2	73
48	Methylation of protein aspartates and deamidated asparagines as a function of blood bank storage and oxidative stress in human red blood cells. Transfusion, 2018, 58, 2978-2991.	1.6	71
49	Plasma succinate is a predictor of mortality in critically injured patients. Journal of Trauma and Acute Care Surgery, 2017, 83, 491-495.	2.1	66
50	Glutaminase inhibition improves FLT3 inhibitor therapy for acute myeloid leukemia. Experimental Hematology, 2018, 58, 52-58.	0.4	64
51	GeLC-MS/MS Analysis of Complex Protein Mixtures. Methods in Molecular Biology, 2014, 1156, 53-66.	0.9	64
52	Red blood cell storage in additive solutionâ€7 preserves energy and redox metabolism: a metabolomics approach. Transfusion, 2015, 55, 2955-2966.	1.6	63
53	Pathologic metabolism. Journal of Trauma and Acute Care Surgery, 2015, 78, 742-751.	2.1	62
54	Fine-Tuning of CD8 + T Cell Mitochondrial Metabolism by the Respiratory Chain Repressor MCJ Dictates Protection to Influenza Virus. Immunity, 2016, 44, 1299-1311.	14.3	61

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55	Evaluation of Different Decellularization Protocols on the Generation of Pancreas-Derived Hydrogels. Tissue Engineering - Part C: Methods, 2018, 24, 697-708.	2.1	60
56	Maternal obesity reduces oxidative capacity in fetal skeletal muscle of Japanese macaques. JCI Insight, 2016, 1, e86612.	5.0	58
57	Tamoxifen induces pleiotrophic changes in mammary stroma resulting in extracellular matrix that suppresses transformed phenotypes. Breast Cancer Research, 2009, 11, R5.	5.0	57
58	Toward the identification of a subset of unexplained infertility: a sperm proteomic approach. Fertility and Sterility, 2014, 102, 692-699.	1.0	57
59	Early hemorrhage triggers metabolic responses that build up during prolonged shock. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 308, R1034-R1044.	1.8	57
60	Specialized interferon action in COVID-19. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	56
61	Skeletal muscle phosphatidylcholine and phosphatidylethanolamine are related to insulin sensitivity and respond to acute exercise in humans. Journal of Applied Physiology, 2016, 120, 1355-1363.	2.5	52
62	Hydroxylamine Chemical Digestion for Insoluble Extracellular Matrix Characterization. Journal of Proteome Research, 2017, 16, 4177-4184.	3.7	52
63	Metabolism of Citrate and Other Carboxylic Acids in Erythrocytes As a Function of Oxygen Saturation and Refrigerated Storage. Frontiers in Medicine, 2017, 4, 175.	2.6	52
64	Astrocytic laminin-211 drives disseminated breast tumor cell dormancy in brain. Nature Cancer, 2022, 3, 25-42.	13.2	52
65	Targeted matrisome analysis identifies thrombospondin-2 and tenascin-C in aligned collagen stroma from invasive breast carcinoma. Scientific Reports, 2018, 8, 12941.	3.3	51
66	The Cac1 subunit of histone chaperone CAF-1 organizes CAF-1-H3/H4 architecture and tetramerizes histones. ELife, 2016, 5, .	6.0	51
67	Lipocalin-1: a potential marker for noninvasive aneuploidy screening. Fertility and Sterility, 2011, 95, 2631-2633.	1.0	50
68	Proteomic analyses of human plasma: Venus versus Mars. Transfusion, 2012, 52, 417-424.	1.6	48
69	Clipping of arginine-methylated histone tails by JMJD5 and JMJD7. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E7717-E7726.	7.1	48
70	Omics markers of the red cell storage lesion and metabolic linkage. Blood Transfusion, 2017, 15, 137-144.	0.4	48
71	Freezeâ€dried plasma enhances clot formation and inhibits fibrinolysis in the presence of tissue plasminogen activator similar to pooled liquid plasma. Transfusion, 2017, 57, 2007-2015.	1.6	47
72	Structural and Functional Insight of Sphingosine 1-Phosphate-Mediated Pathogenic Metabolic Reprogramming in Sickle Cell Disease. Scientific Reports, 2017, 7, 15281.	3.3	47

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73	Plasma First in the Field for Postinjury Hemorrhagic Shock. Shock, 2014, 41, 35-38.	2.1	46
74	Trauma/hemorrhagic shock instigates aberrant metabolic flux through glycolytic pathways, as revealed by preliminary 13C-glucose labeling metabolomics. Journal of Translational Medicine, 2015, 13, 253.	4.4	44
75	Supernatant protein biomarkers of red blood cell storage hemolysis as determined through an absolute quantification proteomics technology. Transfusion, 2016, 56, 1329-1339.	1.6	44
76	Proteomic Analysis of Human Mesenteric Lymph. Shock, 2011, 35, 331-338.	2.1	42
77	The Rodent Liver Undergoes Weaning-Induced Involution and Supports Breast Cancer Metastasis. Cancer Discovery, 2017, 7, 177-187.	9.4	42
78	Does Tranexamic Acid Improve Clot Strength in Severely Injured Patients Who Have Elevated Fibrin Degradation Products and Low Fibrinolytic Activity, Measured by Thrombelastography?. Journal of the American College of Surgeons, 2019, 229, 92-101.	0.5	41
79	Seroconversion stages COVID19 into distinct pathophysiological states. ELife, 2021, 10, .	6.0	40
80	Blood donor exposome and impact of common drugs on red blood cell metabolism. JCI Insight, 2021, 6, .	5.0	39
81	Comfortably Numb and Back: Plasma Metabolomics Reveals Biochemical Adaptations in the Hibernating 13-Lined Ground Squirrel. Journal of Proteome Research, 2017, 16, 958-969.	3.7	37
82	Induction of ADAM10 by Radiation Therapy Drives Fibrosis, Resistance, and Epithelial-to-Mesenchyal Transition in Pancreatic Cancer. Cancer Research, 2021, 81, 3255-3269.	0.9	37
83	Evaluation and Refinement of Sample Preparation Methods for Extracellular Matrix Proteome Coverage. Molecular and Cellular Proteomics, 2021, 20, 100079.	3.8	36
84	CD147: a small molecule transporter ancillary protein at the crossroad of multiple hallmarks of cancer and metabolic reprogramming. Oncotarget, 2017, 8, 6742-6762.	1.8	36
85	Lymph Is Not a Plasma Ultrafiltrate. Shock, 2014, 42, 485-498.	2.1	34
86	Red Blood Cell Metabolic Responses to Torpor and Arousal in the Hibernator Arctic Ground Squirrel. Journal of Proteome Research, 2019, 18, 1827-1841.	3.7	34
87	Lysosomal cathepsin creates chimeric epitopes for diabetogenic CD4 T cells via transpeptidation. Journal of Experimental Medicine, 2021, 218, .	8.5	34
88	Folate dietary insufficiency and folic acid supplementation similarly impair metabolism and compromise hematopoiesis. Haematologica, 2017, 102, 1985-1994.	3.5	33
89	Mechanism of agonism and antagonism of the Pseudomonas aeruginosa quorum sensing regulator QscR with nonâ€native ligands. Molecular Microbiology, 2018, 108, 240-257.	2.5	33
90	Pediatric tri-tube valved conduits made from fibroblast-produced extracellular matrix evaluated over 52 weeks in growing lambs. Science Translational Medicine, 2021, 13, .	12.4	33

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91	Dynamic Changes in Rat Mesenteric Lymph Proteins Following Trauma Using Label-Free Mass Spectrometry. Shock, 2014, 42, 509-517.	2.1	32
92	Plasma QconCATs reveal a gender-specific proteomic signature in apheresis platelet plasma supernatants. Journal of Proteomics, 2015, 120, 1-6.	2.4	32
93	Metabolomics of Endurance Capacity in World Tour Professional Cyclists. Frontiers in Physiology, 2020, 11, 578.	2.8	32
94	Rat Mammary Extracellular Matrix Composition and Response to Ibuprofen Treatment During Postpartum Involution by Differential GeLCâ€“MS/MS Analysis. Journal of Proteome Research, 2012, 11, 4894-4905.	3.7	31
95	Data on how several physiological parameters of stored red blood cells are similar in glucose 6-phosphate dehydrogenase deficient and sufficient donors. Data in Brief, 2016, 8, 618-627.	1.0	31
96	Manufacturing considerations for producing and assessing decellularized extracellular matrix hydrogels. Methods, 2020, 171, 20-27.	3.8	31
97	A high-fat diet delays plasmin generation in a thrombomodulin-dependent manner in mice. Blood, 2020, 135, 1704-1717.	1.4	31
98	Glutamine metabolism drives succinate accumulation in plasma and the lung during hemorrhagic shock. Journal of Trauma and Acute Care Surgery, 2016, 81, 1012-1019.	2.1	30
99	Rational Design of a Parthenolide-based Drug Regimen That Selectively Eradicates Acute Myelogenous Leukemia Stem Cells. Journal of Biological Chemistry, 2016, 291, 21984-22000.	3.4	30
100	The Inherent Dynamics and Interaction Sites of the SARS-CoV-2 Nucleocapsid N-Terminal Region. Journal of Molecular Biology, 2021, 433, 167108.	4.2	30
101	Hemorrhagic shock and tissue injury drive distinct plasma metabolome derangements in swine. Journal of Trauma and Acute Care Surgery, 2017, 83, 635-642.	2.1	29
102	Red blood cells in hemorrhagic shock: a critical role for glutaminolysis in fueling alanine transamination in rats. Blood Advances, 2017, 1, 1296-1305.	5.2	28
103	Systemic hyperfibrinolysis after trauma: a pilot study of targeted proteomic analysis of superposed mechanisms in patient plasma. Journal of Trauma and Acute Care Surgery, 2018, 84, 929-938.	2.1	28
104	Protect, repair, destroy or sacrifice: a role of oxidative stress biology in inter-donor variability of blood storage?. Blood Transfusion, 2019, 17, 281-288.	0.4	28
105	Glycogen synthase kinase-3 (GSK-3) activity regulates mRNA methylation in mouse embryonic stem cells. Journal of Biological Chemistry, 2018, 293, 10731-10743.	3.4	27
106	Decellularized Extracellular Matrix Hydrogels as a Delivery Platform for MicroRNA and Extracellular Vesicle Therapeutics. Advanced Therapeutics, 2018, 1, 1800032.	3.2	26
107	Esophageal extracellular matrix hydrogel mitigates metaplastic change in a dog model of Barrettâ€™s esophagus. Science Advances, 2020, 6, eaba4526.	10.3	26
108	Erythrocyte purinergic signaling components underlie hypoxia adaptation. Journal of Applied Physiology, 2017, 123, 951-956.	2.5	25

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109	Red blood cell metabolism in Down syndrome: hints on metabolic derangements in aging. Blood Advances, 2017, 1, 2776-2780.	5.2	24
110	Alveolar epithelial glycocalyx degradation mediates surfactant dysfunction and contributes to acute respiratory distress syndrome. JCI Insight, 2022, 7, .	5.0	24
111	Proteomics of apheresis platelet supernatants during routine storage: Gender-related differences. Journal of Proteomics, 2015, 112, 190-209.	2.4	23
112	Postpartum breast cancer progression is driven by semaphorin 7a-mediated invasion and survival. Oncogene, 2020, 39, 2772-2785.	5.9	23
113	Fibroblast subtypes define a metastatic matrisome in breast cancer. JCI Insight, 2020, 5, .	5.0	23
114	Biliverdin Reductase B Dynamics Are Coupled to Coenzyme Binding. Journal of Molecular Biology, 2018, 430, 3234-3250.	4.2	22
115	Role of lineage-specific matrix in stem cell chondrogenesis. Biomaterials, 2020, 231, 119681.	11.4	22
116	Injectable Myocardial Matrix Hydrogel Mitigates Negative Left Ventricular Remodeling in a Chronic Myocardial Infarction Model. JACC Basic To Translational Science, 2021, 6, 350-361.	4.1	22
117	The metabolic time line of pancreatic cancer: Opportunities to improve early detection of adenocarcinoma. American Journal of Surgery, 2019, 218, 1206-1212.	1.8	21
118	Parabiosis Incompletely Reverses Aging-Induced Metabolic Changes and Oxidant Stress in Mouse Red Blood Cells. Nutrients, 2019, 11, 1337.	4.1	21
119	Mass spectrometryâ€“based molecular mapping of native FXIIIa cross-links in insoluble fibrin clots. Journal of Biological Chemistry, 2019, 294, 8773-8778.	3.4	21
120	Extracellular vesicles from young womenâ€™s breast cancer patients drive increased invasion of non-malignant cells via the Focal Adhesion Kinase pathway: a proteomic approach. Breast Cancer Research, 2020, 22, 128.	5.0	21
121	Succinate Activation of SUCNR1 Predisposes Severely Injured Patients to Neutrophil-mediated ARDS. Annals of Surgery, 2022, 276, e944-e954.	4.2	21
122	Brr2 plays a role in spliceosomal activation in addition to U4/U6 unwinding. Nucleic Acids Research, 2015, 43, 3286-3297.	14.5	20
123	Response to radiotherapy in pancreatic ductal adenocarcinoma is enhanced by inhibition of myeloid-derived suppressor cells using STAT3 anti-sense oligonucleotide. Cancer Immunology, Immunotherapy, 2021, 70, 989-1000.	4.2	20
124	JMJD6 cleaves MePCE to release positive transcription elongation factor b (P-TEFb) in higher eukaryotes. ELife, 2020, 9, .	6.0	20
125	Unchecked oxidative stress in skeletal muscle prevents outgrowth of disseminated tumour cells. Nature Cell Biology, 2022, 24, 538-553.	10.3	20
126	Itâ€™s not your grandfatherâ€™s field plasma. Surgery, 2013, 153, 857-860.	1.9	19

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127	The Immunosuppressant Mycophenolic Acid Alters Nucleotide and Lipid Metabolism in an Intestinal Cell Model. Scientific Reports, 2017, 7, 45088.	3.3	19
128	An autonomous metabolic role for Spen. PLoS Genetics, 2017, 13, e1006859.	3.5	19
129	Protein-L-isoaspartate O-methyltransferase is required for <i>in vivo</i> control of oxidative damage in red blood cells. Haematologica, 2021, 106, 2726-2739.	3.5	19
130	Differential Î²₃Integrin Expression Regulates the Response of Human Lung and Cardiac Fibroblasts to Extracellular Matrix and Its Components. Tissue Engineering - Part A, 2015, 21, 2195-2205.	3.1	18
131	Mass Spectrometryâ€Based Bottomâ€Up Proteomics: Sample Preparation, LCâ€MS/MS Analysis, and Database Query Strategies. Current Protocols in Protein Science, 2016, 86, 16.4.1-16.4.20.	2.8	18
132	Monoubiquitination of survival motor neuron regulates its cellular localization and Cajal body integrity. Human Molecular Genetics, 2016, 25, 1392-1405.	2.9	18
133	The Metabolopathy of Tissue Injury, Hemorrhagic Shock, and Resuscitation in a Rat Model. Shock, 2018, 49, 580-590.	2.1	18
134	Pancreatic Tumor Microenvironment Modulation by EphB4-ephrinB2 Inhibition and Radiation Combination. Clinical Cancer Research, 2019, 25, 3352-3365.	7.0	18
135	Targeted Intracellular Delivery of Trastuzumab Using Designer Phage Lambda Nanoparticles Alters Cellular Programs in Human Breast Cancer Cells. ACS Nano, 2021, 15, 11789-11805.	14.6	18
136	Coordination between Drosophila Arc1 and a specific population of brain neurons regulates organismal fat. Developmental Biology, 2015, 405, 280-290.	2.0	17
137	Functional Insights from the Proteomic Inventory of Ovine Forestomach Matrix. Journal of Proteome Research, 2019, 18, 1657-1668.	3.7	17
138	Inflammation, immunity, and vascular remodeling in pulmonary hypertension; Evidence for complement involvement?. Global Cardiology Science & Practice, 2020, 2020, e202001.	0.4	17
139	Metabolomics of trauma-associated death: shared and fluid-specific features of human plasma vs lymph. Blood Transfusion, 2016, 14, 185-94.	0.4	17
140	Minireview: Multiomic candidate biomarkers for clinical manifestations of sickle cell severity: Early steps to precision medicine. Experimental Biology and Medicine, 2016, 241, 772-781.	2.4	16
141	Matrix reverses immortalization-mediated stem cell fate determination. Biomaterials, 2021, 265, 120387.	11.4	15
142	Prospective assessment of fibrinolysis in morbid obesity: tissueÂplasminogen activator resistance improves after bariatricÂsurgery. Surgery for Obesity and Related Diseases, 2019, 15, 1153-1159.	1.2	14
143	Cell cycle-specific cleavage of Scc2 regulates its cohesin deposition activity. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7060-7065.	7.1	13
144	Site-Dependent Lineage Preference of Adipose Stem Cells. Frontiers in Cell and Developmental Biology, 2020, 8, 237.	3.7	13

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145	Proteome of Stored RBC Membrane and Vesicles from Heterozygous Beta Thalassemia Donors. International Journal of Molecular Sciences, 2021, 22, 3369.	4.1	13
146	Complement-containing small extracellular vesicles from adventitial fibroblasts induce proinflammatory and metabolic reprogramming in macrophages. JCI Insight, 2021, 6, .	5.0	13
147	Hypertonic Saline Primes Activation of the p53â€“p21 Signaling Axis in Human Small Airway Epithelial Cells That Prevents Inflammation Induced by Pro-inflammatory Cytokines. Journal of Proteome Research, 2016, 15, 3813-3826.	3.7	11
148	Characterization of rapid extraction protocols for highâ€throughput metabolomics. Rapid Communications in Mass Spectrometry, 2017, 31, 1445-1452.	1.5	11
149	Compartment resolved proteomics reveals a dynamic matrisome in a biomechanically driven model of pancreatic ductal adenocarcinoma. Journal of Immunology and Regenerative Medicine, 2018, 1, 67-75.	0.4	9
150	Mammary collagen is under reproductive control with implications for breast cancer. Matrix Biology, 2022, 105, 104-126.	3.6	9
151	Phosphorylation of the Scc2 cohesin deposition complex subunit regulates chromosome condensation through cohesin integrity. Molecular Biology of the Cell, 2015, 26, 3754-3767.	2.1	8
152	Biologically-engineered mechanical model of a calcified artery. Acta Biomaterialia, 2020, 110, 164-174.	8.3	8
153	A combat casualty relevant dismounted complex blast injury model in swine. Journal of Trauma and Acute Care Surgery, 2022, 93, S110-S118.	2.1	8
154	Blood and Plasma Proteomics: Targeted Quantitation and Posttranslational Redox Modifications. Methods in Molecular Biology, 2017, 1619, 353-371.	0.9	7
155	A comparison of different methods of red blood cell leukoreduction and additive solutions on the accumulation of neutrophilâ€priming activity during storage. Transfusion, 2018, 58, 2003-2012.	1.6	7
156	Streptococcus pneumoniae G5 domains bind different ligands. Protein Science, 2019, 28, 1797-1805.	7.6	7
157	Regulation of Mitochondrial Morphology Is Important for Leukemia Stem Cell Function. Blood, 2015, 126, 842-842.	1.4	7
158	The effect of normal, metaplastic, and neoplastic esophageal extracellular matrix upon macrophage activation. Journal of Immunology and Regenerative Medicine, 2021, 13, 100037.	0.4	6
159	Correlation of preâ€operative plasma protein concentrations in cardiac surgery patients with bleeding outcomes using a targeted quantitative proteomics approach. Proteomics - Clinical Applications, 2017, 11, 1600175.	1.6	5
160	Selective organ ischaemia/reperfusion identifies liver as the key driver of the post-injury plasma metabolome derangements. Blood Transfusion, 2019, 17, 347-356.	0.4	5
161	Increase in post-reperfusion sensitivity to tissue plasminogen activator-mediated fibrinolysis during liver transplantation is associated with abnormal metabolic changes and increased blood product utilisation. Blood Transfusion, 2019, 17, 312-320.	0.4	5
162	Apolipoprotein A-I, elevated in trauma patients, inhibits platelet activation and decreases clot strength. Platelets, 2022, 33, 1119-1131.	2.3	5

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163	When natureâ€™s robots go rogue: exploring protein homeostasis dysfunction and the implications for understanding human aging disease pathologies. Expert Review of Proteomics, 2018, 15, 293-309.	3.0	4
164	Solution NMR backbone assignment reveals interaction-free tumbling of human lineage-specific Olduvai protein domains. Biomolecular NMR Assignments, 2019, 13, 339-343.	0.8	4
165	Effects of phosphatidylcholine and betaine supplements on women's serum choline. Journal of Nutrition & Intermediary Metabolism, 2019, 16, 100094.	1.7	4
166	Investigation of the effects of storage and freezing on mixes of heavyâ€labeled metabolite and amino acid standards. Rapid Communications in Mass Spectrometry, 2017, 31, 2030-2034.	1.5	3
167	SILAC-MS Profiling of Reconstituted Human Chromatin Platforms for the Study of Transcription and RNA Regulation. Journal of Proteome Research, 2018, 17, 3475-3484.	3.7	2
168	Characterization of decellularized left and right ventricular myocardial matrix hydrogels and their effects on cardiac progenitor cells. Journal of Molecular and Cellular Cardiology, 2022, 171, 45-55.	1.9	2
169	The Î±-globin chain of hemoglobin potentiates tissue plasminogen activator induced hyperfibrinolysis in vitro. Journal of Trauma and Acute Care Surgery, 2022, 92, 159-166.	2.1	1
170	Mitochondrial Fission 1 Regulates GSK3 and AMPK Signaling to Sustain Leukemia Stem Cell Function in Acute Myelogenous Leukemia. Blood, 2016, 128, 1703-1703.	1.4	1
171	The Neutrophil Alloantigen HNA-3a (5b) Is Encoded by an Amino Acid Substitution in Choline Transporter-Like Protein 2 (CTL2). Blood, 2009, 114, LBA-4-LBA-4.	1.4	0
172	Abstract B090: Collagen organization implicated in tumor dormancy. , 2013, , .		0
173	Structural and Functional Insight of Sphingosine 1-Phosphate-Mediated Pathogenic Metabolic Reprogramming in Sickle Cell Disease. Blood, 2016, 128, 2474-2474.	1.4	0
174	Solution NMR backbone assignments of disordered Olduvai protein domain CON1 employing HÎ±-detected experiments. Biomolecular NMR Assignments, 2022, , 1.	0.8	0
175	A liquid fraction of extracellular matrix inhibits glioma cell viability in vitro and in vivo. Oncotarget, 2022, 13, 426-438.	1.8	0