

Janice Mayne

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

3,699
citations

186265

28
h-index

149698

56
g-index

70
all docs

70
docs citations

70
times ranked

4633
citing authors

#	ARTICLE	IF	CITATIONS
1	NARC-1/PCSK9 and Its Natural Mutants. Journal of Biological Chemistry, 2004, 279, 48865-48875.	3.4	544
2	Quantitative analysis of SARS-CoV-2 RNA from wastewater solids in communities with low COVID-19 incidence and prevalence. Water Research, 2021, 188, 116560.	11.3	297
3	Metaproteomics reveals associations between microbiome and intestinal extracellular vesicle proteins in pediatric inflammatory bowel disease. Nature Communications, 2018, 9, 2873.	12.8	209
4	RapidAIM: a culture- and metaproteomics-based Rapid Assay of Individual Microbiome responses to drugs. Microbiome, 2020, 8, 33.	11.1	209
5	Plasma PCSK9 levels are significantly modified by statins and fibrates in humans. Lipids in Health and Disease, 2008, 7, 22.	3.0	187
6	PCSK9-deficient mice exhibit impaired glucose tolerance and pancreatic islet abnormalities. FEBS Letters, 2010, 584, 701-706.	2.8	165
7	Catching a resurgence: Increase in SARS-CoV-2 viral RNA identified in wastewater 48h before COVID-19 clinical tests and 96h before hospitalizations. Science of the Total Environment, 2021, 770, 145319.	8.0	159
8	MetaPro-IQ: a universal metaproteomic approach to studying human and mouse gut microbiota. Microbiome, 2016, 4, 31.	11.1	154
9	MetaLab: an automated pipeline for metaproteomic data analysis. Microbiome, 2017, 5, 157.	11.1	128
10	Assessing the impact of protein extraction methods for human gut metaproteomics. Journal of Proteomics, 2018, 180, 120-127.	2.4	115
11	Novel Loss-of-Function PCSK9 Variant Is Associated with Low Plasma LDL Cholesterol in a French-Canadian Family and with Impaired Processing and Secretion in Cell Culture. Clinical Chemistry, 2011, 57, 1415-1423.	3.2	101
12	Deep Metaproteomics Approach for the Study of Human Microbiomes. Analytical Chemistry, 2017, 89, 9407-9415.	6.5	83
13	Plasma PCSK9 levels correlate with cholesterol in men but not in women. Biochemical and Biophysical Research Communications, 2007, 361, 451-456.	2.1	82
14	An in vitro model maintaining taxon-specific functional activities of the gut microbiome. Nature Communications, 2019, 10, 4146.	12.8	70
15	iMetaLab 1.0: a web platform for metaproteomics data analysis. Bioinformatics, 2018, 34, 3954-3956.	4.1	64
16	The Proteomic Landscape of the Suprachiasmatic Nucleus Clock Reveals Large-Scale Coordination of Key Biological Processes. PLoS Genetics, 2014, 10, e1004695.	3.5	63
17	PCSK9 is phosphorylated by a Golgi casein kinase-like kinase <i>in vivo</i> and circulates as a phosphoprotein in humans. FEBS Journal, 2008, 275, 3480-3493.	4.7	58
18	Quercetin-3-O-glucoside increases low-density lipoprotein receptor (LDLR) expression, attenuates proprotein convertase subtilisin/kexin 9 (PCSK9) secretion, and stimulates LDL uptake by Huh7 human hepatocytes in culture. FEBS Open Bio, 2014, 4, 755-762.	2.3	58

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19	Bottom-Up Proteomics (2013–2015): Keeping up in the Era of Systems Biology. <i>Analytical Chemistry</i> , 2016, 88, 95-121.	6.5	52
20	Differential effects of PCSK9 loss of function variants on serum lipid and PCSK9 levels in Caucasian and African Canadian populations. <i>Lipids in Health and Disease</i> , 2013, 12, 70.	3.0	50
21	Evaluating in Vitro Culture Medium of Gut Microbiome with Orthogonal Experimental Design and a Metaproteomics Approach. <i>Journal of Proteome Research</i> , 2018, 17, 154-163.	3.7	41
22	Annexin A2 Reduces PCSK9 Protein Levels via a Translational Mechanism and Interacts with the M1 and M2 Domains of PCSK9. <i>Journal of Biological Chemistry</i> , 2014, 289, 17732-17746.	3.4	40
23	<i>In Vitro</i> Metabolic Labeling of Intestinal Microbiota for Quantitative Metaproteomics. <i>Analytical Chemistry</i> , 2016, 88, 6120-6125.	6.5	40
24	Chronic kidney disease on hemodialysis is associated with decreased serum PCSK9 levels. <i>Atherosclerosis</i> , 2014, 233, 123-129.	0.8	39
25	Phosphoproteome Profiling Reveals Circadian Clock Regulation of Posttranslational Modifications in the Murine Hippocampus. <i>Frontiers in Neurology</i> , 2017, 8, 110.	2.4	35
26	A targeted deletion/insertion in the mouse <i>Pcsk1</i> locus is associated with homozygous embryo preimplantation lethality, mutant allele preferential transmission and heterozygous female susceptibility to dietary fat. <i>Developmental Biology</i> , 2007, 306, 584-598.	2.0	34
27	Expression of PCSK1 (PC1/3), PCSK2 (PC2) and PCSK3 (furin) in mouse small intestine. <i>Regulatory Peptides</i> , 2009, 152, 54-60.	1.9	34
28	The Effect of PCSK9 Loss-of-Function Variants on the Postprandial Lipid and ApoB-Lipoprotein Response. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2017, 102, 3452-3460.	3.6	32
29	The Proprotein Convertase SKI-1/S1P. <i>Journal of Biological Chemistry</i> , 2007, 282, 27402-27413.	3.4	30
30	A charge-suppressing strategy for probing protein methylation. <i>Chemical Communications</i> , 2016, 52, 5474-5477.	4.1	30
31	Berberine and its structural analogs have differing effects on functional profiles of individual gut microbiomes. <i>Gut Microbes</i> , 2020, 11, 1348-1361.	9.8	30
32	Mice Fed a High-Cholesterol Diet Supplemented with Quercetin-3-O-Glucoside Show Attenuated Hyperlipidemia and Hyperinsulinemia Associated with Differential Regulation of PCSK9 and LDLR in their Liver and Pancreas. <i>Molecular Nutrition and Food Research</i> , 2018, 62, e1700729.	3.3	29
33	Variable effects of gender and Western diet on lipid and glucose homeostasis in aged PCSK9-deficient C57BL/6 mice. <i>Journal of Lipid Research</i> , 2018, 59, 1-11.	1.8	28
34	Metaproteomic and Metabolomic Approaches for Characterizing the Gut Microbiome. <i>Proteomics</i> , 2019, 19, e1800363.	2.2	28
35	Proprotein Convertases Subtilisin/Kexin Type 9, an enzyme turned escort protein: Hepatic and extra hepatic functions. <i>Journal of Lipid Research</i> , 2011, 52, 391-405.	2.1	26
36	Human Serum PCSK9 Is Elevated at Parturition in Comparison to Nonpregnant Subjects While Serum PCSK9 from Umbilical Cord Blood is Lower Compared to Maternal Blood. <i>Isrn Endocrinology</i> , 2013, 2013, 1-8.	2.0	26

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37	Of PCSK9, cholesterol homeostasis and parasitic infections: Possible survival benefits of loss-of-function PCSK9 genetic polymorphisms. <i>Medical Hypotheses</i> , 2007, 69, 1010-1017.	1.5	24
38	Purification and metal ion requirements of a candidate matrix metalloproteinase: a 41 kDa gelatinase activity in the sea urchin embryo. <i>Biochemistry and Cell Biology</i> , 1996, 74, 211-218.	2.0	23
39	Open: Mucosal-luminal interface proteomics reveals biomarkers of pediatric inflammatory bowel disease-associated colitis. <i>American Journal of Gastroenterology</i> , 2018, 113, 713-724.	0.4	23
40	PCSK2-null mice exhibit delayed intestinal motility, reduced refeeding response and altered plasma levels of several regulatory peptides. <i>Life Sciences</i> , 2011, 88, 212-217.	4.3	21
41	MetaLab 2.0 Enables Accurate Post-Translational Modifications Profiling in Metaproteomics. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 1473-1482.	2.8	21
42	Fine Tuning of Proteomic Technologies to Improve Biological Findings: Advancements in 2011–2013. <i>Analytical Chemistry</i> , 2014, 86, 176-195.	6.5	18
43	Quantitative phosphoproteomics reveals involvement of multiple signaling pathways in early phagocytosis by the retinal pigmented epithelium. <i>Journal of Biological Chemistry</i> , 2017, 292, 19826-19839.	3.4	17
44	Localization and functional role of a 41 kDa collagenase/gelatinase activity expressed in the sea urchin embryo. <i>Development Growth and Differentiation</i> , 2002, 44, 345-356.	1.5	15
45	Quantitative Proteomic Analysis of PCSK9 Gain of Function in Human Hepatic HuH7 Cells. <i>Journal of Proteome Research</i> , 2011, 10, 2011-2026.	3.7	15
46	A functional ecological network based on metaproteomics responses of individual gut microbiomes to resistant starches. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 3833-3842.	4.1	15
47	17β-Estradiol results in a proprotein convertase subtilisin/kexin type 9-dependent increase in low-density lipoprotein receptor levels in human hepatic HuH7 cells. <i>FEBS Journal</i> , 2015, 282, 2682-2696.	4.7	14
48	Peptide-Centric Approaches Provide an Alternative Perspective To Re-Examine Quantitative Proteomic Data. <i>Analytical Chemistry</i> , 2016, 88, 1973-1978.	6.5	14
49	Associations Between Soluble LDLR and Lipoproteins in a White Cohort and the Effect of PCSK9 Loss-of-Function. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018, 103, 3486-3495.	3.6	14
50	Calcium-protein interactions in the extracellular environment: Calcium binding, activation, and immunolocalization of a collagenase/gelatinase activity expressed in the sea urchin embryo. , 1998, 71, 546-558.		12
51	Chemoenzymatic Method for Glycoproteomic N-Glycan Type Quantitation. <i>Analytical Chemistry</i> , 2020, 92, 1618-1627.	6.5	11
52	Shedding of cancer susceptibility candidate 4 by the convertases PC7/furin unravels a novel secretory protein implicated in cancer progression. <i>Cell Death and Disease</i> , 2020, 11, 665.	6.3	10
53	Metaproteomics Reveals Growth Phase-Dependent Responses of an <i>In Vitro</i> Gut Microbiota to Metformin. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 1448-1458.	2.8	7
54	Evaluating live microbiota biobanking using an <i>ex vivo</i> microbiome assay and metaproteomics. <i>Gut Microbes</i> , 2022, 14, 2035658.	9.8	7

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55	Comparative analysis of the structure and thermal stability of sea urchin peristome and rat tail tendon collagen. <i>Journal of Cellular Biochemistry</i> , 2002, 84, 567-74.	2.6	7
56	Exploring the Microbiome-Wide Lysine Acetylation, Succinylation, and Propionylation in Human Gut Microbiota. <i>Analytical Chemistry</i> , 2021, 93, 6594-6598.	6.5	6
57	Studying the Temporal Dynamics of the Gut Microbiota Using Metabolic Stable Isotope Labeling and Metaproteomics. <i>Analytical Chemistry</i> , 2020, 92, 15711-15718.	6.5	5
58	Examining the Effects of an Anti-Salmonella Bacteriophage Preparation, BAFASALÂ®, on Ex-Vivo Human Gut Microbiome Composition and Function Using a Multi-Omics Approach. <i>Viruses</i> , 2021, 13, 1734.	3.3	5
59	Comparative analysis of the kinetic parameters and thermal stability of two matrix metalloproteinases expressed in the developing sea urchin embryo. <i>International Journal of Biochemistry and Cell Biology</i> , 1999, 31, 717-724.	2.8	4
60	Separation and characterization of human microbiomes by metaproteomics. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 108, 221-230.	11.4	4
61	Differential Lysis Approach Enables Selective Extraction of Taxon-Specific Proteins for Gut Metaproteomics. <i>Analytical Chemistry</i> , 2020, 92, 5379-5386.	6.5	4
62	Circulating <scp>PCSK</scp>9 is lowered acutely following surgery. <i>Journal of Clinical Laboratory Analysis</i> , 2018, 32, e22358.	2.1	3
63	Comprehensive Assessment of Functional Effects of Commonly Used Sugar Substitute Sweeteners on <i>Ex Vivo</i> Human Gut Microbiome. <i>Microbiology Spectrum</i> , 2022, 10, .	3.0	3
64	The Effects of Ca ²⁺ and Mg ²⁺ on the Major Gelatinase Activities Present in the Sea Urchin Embryo. <i>Biochemical and Biophysical Research Communications</i> , 1998, 243, 326-330.	2.1	2
65	Characterisation of a 41 kDa collagenase/gelatinase activity expressed in the sea urchin embryo. <i>Zygote</i> , 1999, 8, S37-S38.	1.1	1