Kirk L Pappan

List of Publications by Year
in descending order

54	3,120	147726	168321
papers	citations	31 h-index	53 g-index

54	54	54	4304
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A protein from the salivary glands of the pea aphid, Acyrthosiphon pisum , is essential in feeding on a host plant. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 9965-9969.	3.3	339
2	Predicted Effector Molecules in the Salivary Secretome of the Pea Aphid (Acyrthosiphon pisum): A Dual Transcriptomic/Proteomic Approach. Journal of Proteome Research, 2011, 10, 1505-1518.	1.8	219
3	Molecular Heterogeneity of Phospholipase D (PLD). Journal of Biological Chemistry, 1997, 272, 28267-28273.	1.6	156
4	Substrate Selectivities and Lipid Modulation of Plant Phospholipase DÎ±, -Î², and -Î³. Archives of Biochemistry and Biophysics, 1998, 353, 131-140.	1.4	150
5	Signaling Elements Involved in the Metabolic Regulation of mTOR by Nutrients, Incretins, and Growth Factors in Islets. Diabetes, 2004, 53, S225-S232.	0.3	142
6	Metabolic and Autocrine Regulation of the Mammalian Target of Rapamycin by Pancreatic Â-Cells. Diabetes, 2002, 51, 2877-2885.	0.3	127
7	High-fat diet-induced Î²-cell proliferation occurs prior to insulin resistance in C57Bl/6J male mice. American Journal of Physiology - Endocrinology and Metabolism, 2015, 308, E573-E582.	1.8	117
8	Identification and Characterization of a Novel Plant Phospholipase D That Requires Polyphosphoinositides and Submicromolar Calcium for Activity in Arabidopsis. Journal of Biological Chemistry, 1997, 272, 7048-7054.	1.6	106
9	cAMP Dose-dependently Prevents Palmitate-induced Apoptosis by Both Protein Kinase A- and cAMP-Guanine Nucleotide Exchange Factor-dependent Pathways in Î²-Cells. Journal of Biological Chemistry, 2004, 279, 8938-8945.	1.6	106
10	Molecular Cloning and Functional Analysis of Polyphosphoinositide-dependent Phospholipase D, PLDÎ², from Arabidopsis. Journal of Biological Chemistry, 1997, 272, 7055-7061.	1.6	104
11	Precision of a Clinical Metabolomics Profiling Platform for Use in the Identification of Inborn Errors of Metabolism. journal of applied laboratory medicine, The, 2020, 5, 342-356.	0.6	99
12	Plasma Metabolomic Profiles in Different Stages of CKD. Clinical Journal of the American Society of Nephrology: CJASN, 2013, 8, 363-370.	2.2	90
13	Influence of a Polyphenol-Enriched Protein Powder on Exercise-Induced Inflammation and Oxidative Stress in Athletes: A Randomized Trial Using a Metabolomics Approach. PLoS ONE, 2013, 8, e72215.	1.1	90
14	Serum Metabolic Signatures Induced By a Three-Day Intensified Exercise Period Persist After 14 h of Recovery in Runners. Journal of Proteome Research, 2013, 12, 4577-4584.	1.8	77
15	Glycogen Synthase Kinase-3 and Mammalian Target of Rapamycin Pathways Contribute to DNA Synthesis, Cell Cycle Progression, and Proliferation in Human Islets. Diabetes, 2009, 58, 663-672.	0.3	76
16	Metabolomics approach to assessing plasma 13- and 9-hydroxy-octadecadienoic acid and linoleic acid metabolite responses to 75-km cycling. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 307, R68-R74.	0.9	73
17	Metabolomics in the clinic: A review of the shared and unique features of untargeted metabolomics for clinical research and clinical testing. Journal of Mass Spectrometry, 2018, 53, 1143-1154.	0.7	69
18	Metabolomics-Based Analysis of Banana and Pear Ingestion on Exercise Performance and Recovery. Journal of Proteome Research, 2015, 14, 5367-5377.	1.8	58

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19	Glucose-stimulated DNA Synthesis through Mammalian Target of Rapamycin (mTOR) Is Regulated by KATP Channels. Journal of Biological Chemistry, 2006, 281, 3261-3267.	1.6	55
20	Influence of Pistachios on Performance and Exercise-Induced Inflammation, Oxidative Stress, Immune Dysfunction, and Metabolite Shifts in Cyclists: A Randomized, Crossover Trial. PLoS ONE, 2014, 9, e113725.	1.1	55
21	Molecular and biochemical properties and physiological roles of plant phospholipase D. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 1999, 1439, 151-166.	1.2	54
22	Plant Phospholipase DÎ± Is an Acidic Phospholipase Active at Near-Physiological Ca2+ Concentrations. Archives of Biochemistry and Biophysics, 1999, 368, 347-353.	1.4	53
23	Pancreatic Î²-Cell Lipoprotein Lipase Independently Regulates Islet Glucose Metabolism and Normal Insulin Secretion. Journal of Biological Chemistry, 2005, 280, 9023-9029.	1.6	49
24	Elucidation of the complex metabolic profile of cerebrospinal fluid using an untargeted biochemical profiling assay. Molecular Genetics and Metabolism, 2017, 121, 83-90.	0.5	44
25	Inactivation of hypothalamic FAS protects mice from diet-induced obesity and inflammation. Journal of Lipid Research, 2009, 50, 630-640.	2.0	41
26	High-Temperature Enzymatic Breakdown of Cellulose. Applied and Environmental Microbiology, 2011, 77, 5199-5206.	1.4	41
27	Metabolite Profiles of the Serum of Patients with Nonâ€“Small Cell Carcinoma. Journal of Thoracic Oncology, 2016, 11, 72-78.	0.5	41
28	Impaired Metabolic Reactivity to Oxidative Stress in Early Psychosis Patients. Schizophrenia Bulletin, 2014, 40, 973-983.	2.3	39
29	Comparison of Untargeted Metabolomic Profiling vs Traditional Metabolic Screening to Identify Inborn Errors of Metabolism. JAMA Network Open, 2021, 4, e2114155.	2.8	38
30	Metabolomics Study of the Effects of Inflammation, Hypoxia, and High Glucose on Isolated Human Pancreatic Islets. Journal of Proteome Research, 2017, 16, 2294-2306.	1.8	35
31	Plasma Metabolomic Profiles of Breast Cancer Patients after Short-term Limonene Intervention. Cancer Prevention Research, 2015, 8, 86-93.	0.7	34
32	Circulating levels of endocannabinoids and oxylipins altered by dietary lipids in older women are likely associated with previously identified gene targets. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 1693-1704.	1.2	31
33	Evidence for and Characterization of Ca2+ Binding to the Catalytic Region of Arabidopsis thaliana Phospholipase Dβ. Journal of Biological Chemistry, 2004, 279, 47833-47839.	1.6	30
34	IL-6 Linkage to Exercise-Induced Shifts in Lipid-Related Metabolites: A Metabolomics-Based Analysis. Journal of Proteome Research, 2017, 16, 970-977.	1.8	28
35	Decreased Fetal Size Is Associated With Â-Cell Hyperfunction in Early Life and Failure With Age. Diabetes, 2008, 57, 2698-2707.	0.3	25
36	2-Pyrrolidinone and Succinimide as Clinical Screening Biomarkers for GABA-Transaminase Deficiency: Anti-seizure Medications Impact Accurate Diagnosis. Frontiers in Neuroscience, 2019, 13, 394.	1.4	23

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37	Breathing new life into clinical testing and diagnostics: perspectives on volatile biomarkers from breath. Critical Reviews in Clinical Laboratory Sciences, 2022, 59, 353-372.	2.7	23
38	Clinical Metabolomics to Segregate Aromatic Amino Acid Decarboxylase Deficiency From Drug-Induced Metabolite Elevations. Pediatric Neurology, 2017, 75, 66-72.	1.0	19
39	Examination of Physiological Function and Biochemical Disorders in a Rat Model of Prolonged Asphyxia-Induced Cardiac Arrest followed by Cardio Pulmonary Bypass Resuscitation. PLoS ONE, 2014, 9, e112012.	1.1	18
40	Beta-aminoisobutyric acid is released by contracting human skeletal muscle and lowers insulin release from INS-1 832/3Âcells by mediating mitochondrial energy metabolism. Metabolism Open, 2020, 7, 100053.	1.4	18
41	Global Biochemical Profiling Identifies Î²-Hydroxypyruvate as a Potential Mediator of Type 2 Diabetes in Mice and Humans. Diabetes, 2015, 64, 1383-1394.	0.3	17
42	The structure of rice weevil pectin methylesterase. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 1480-1484.	0.4	15
43	Untargeted metabolomics identifies unique though benign biochemical changes in patients with pathogenic variants in UROC1. Molecular Genetics and Metabolism Reports, 2019, 18, 14-18.	0.4	15
44	Untargeted metabolomics as an unbiased approach to the diagnosis of inborn errors of metabolism of the non-oxidative branch of the pentose phosphate pathway. Molecular Genetics and Metabolism, 2020, 131, 147-154.	0.5	14
45	Lipid profile of human synovial fluid following intra-articular ankle fracture. Journal of Orthopaedic Research, 2017, 35, 657-666.	1.2	13
46	Clinical, biochemical, mitochondrial, and metabolomic aspects of methylmalonate semialdehyde dehydrogenase deficiency: Report of a fifth case. Molecular Genetics and Metabolism, 2020, 129, 272-277.	0.5	12
47	The SARS-CoV-2 viral load in COVID-19 patients is lower on face mask filters than on nasopharyngeal swabs. Scientific Reports, 2021, 11, 13476.	1.6	10
48	Long-Chain Acylcholines Link Butyrylcholinesterase to Regulation of Non-neuronal Cholinergic Signaling. Journal of Proteome Research, 2022, 21, 599-611.	1.8	8
49	Plasma Metabolite Profiling and Search for Biomarkers of Metabolic Dysfunction in Dogs Undergoing Rapid Weight Gain. Current Metabolomics, 2015, 3, 102-121.	0.5	7
50	Therapeutic Strategies to Increase Human Î²-Cell Growth and Proliferation by Regulating mTOR and GSK-3/Î²-Catenin Pathways. The Open Endocrinology Journal, 2010, 4, 40-54.	0.1	6
51	Assaying Different Types of Plant Phospholipase D Activities In Vitro. Methods in Molecular Biology, 2013, 1009, 205-217.	0.4	5
52	Increases in bioactive lipids accompany early metabolic changes associated with Î²-cell expansion in response to short-term high-fat diet. American Journal of Physiology - Endocrinology and Metabolism, 2018, 315, E1251-E1263.	1.8	5
53	The Analysis of Small Molecule Metabolite Profiles in the Blood as a Biomarker of Lung Cancer. Chest, 2014, 146, 587A.	0.4	1
54	Metabolomic analysis of Shiga toxin 2a-induced injury in conditionally immortalized glomerular endothelial cells. Metabolomics, 2019, 15, 131.	1.4	0