

Kirk L Pappan

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52
papers

2,424
citations

28
h-index

49
g-index

54
ext. papers

2,790
ext. citations

3.9
avg, IF

4.57
L-index

#	Paper	IF	Citations
52	A protein from the salivary glands of the pea aphid, <i>Acyrtosiphon pisum</i> , is essential in feeding on a host plant. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 9965-9	11.5	258
51	Predicted effector molecules in the salivary secretome of the pea aphid (<i>Acyrtosiphon pisum</i>): a dual transcriptomic/proteomic approach. <i>Journal of Proteome Research</i> , 2011 , 10, 1505-18	5.6	176
50	Substrate selectivities and lipid modulation of plant phospholipase D alpha, -beta, and -gamma. <i>Archives of Biochemistry and Biophysics</i> , 1998 , 353, 131-40	4.1	142
49	Molecular heterogeneity of phospholipase D (PLD). Cloning of PLDgamma and regulation of plant PLDgamma, -beta, and -alpha by polyphosphoinositides and calcium. <i>Journal of Biological Chemistry</i> , 1997 , 272, 28267-73	5.4	129
48	Signaling elements involved in the metabolic regulation of mTOR by nutrients, incretins, and growth factors in islets. <i>Diabetes</i> , 2004 , 53 Suppl 3, S225-32	0.9	122
47	Metabolic and autocrine regulation of the mammalian target of rapamycin by pancreatic beta-cells. <i>Diabetes</i> , 2002 , 51, 2877-85	0.9	113
46	cAMP Dose-dependently prevents palmitate-induced apoptosis by both protein kinase A- and cAMP-guanine nucleotide exchange factor-dependent pathways in beta-cells. <i>Journal of Biological Chemistry</i> , 2004 , 279, 8938-45	5.4	100
45	Identification and characterization of a novel plant phospholipase D that requires polyphosphoinositides and submicromolar calcium for activity in Arabidopsis. <i>Journal of Biological Chemistry</i> , 1997 , 272, 7048-54	5.4	96
44	Molecular cloning and functional analysis of polyphosphoinositide-dependent phospholipase D, PLDbeta, from Arabidopsis. <i>Journal of Biological Chemistry</i> , 1997 , 272, 7055-61	5.4	92
43	High-fat diet-induced β cell proliferation occurs prior to insulin resistance in C57Bl/6J male mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015 , 308, E573-82	6	77
42	Glycogen synthase kinase-3 and mammalian target of rapamycin pathways contribute to DNA synthesis, cell cycle progression, and proliferation in human islets. <i>Diabetes</i> , 2009 , 58, 663-72	0.9	69
41	Plasma metabolomic profiles in different stages of CKD. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2013 , 8, 363-70	6.9	68
40	Influence of a polyphenol-enriched protein powder on exercise-induced inflammation and oxidative stress in athletes: a randomized trial using a metabolomics approach. <i>PLoS ONE</i> , 2013 , 8, e72215	3.7	67
39	Serum metabolic signatures induced by a three-day intensified exercise period persist after 14 h of recovery in runners. <i>Journal of Proteome Research</i> , 2013 , 12, 4577-84	5.6	61
38	Metabolomics approach to assessing plasma 13- and 9-hydroxy-octadecadienoic acid and linoleic acid metabolite responses to 75-km cycling. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014 , 307, R68-74	3.2	56
37	Plant phospholipase Dalpha is an acidic phospholipase active at near-physiological Ca(2+) concentrations. <i>Archives of Biochemistry and Biophysics</i> , 1999 , 368, 347-53	4.1	51
36	Glucose-stimulated DNA synthesis through mammalian target of rapamycin (mTOR) is regulated by KATP channels: effects on cell cycle progression in rodent islets. <i>Journal of Biological Chemistry</i> , 2006 , 281, 3261-7	5.4	50

35	Metabolomics-Based Analysis of Banana and Pear Ingestion on Exercise Performance and Recovery. <i>Journal of Proteome Research</i> , 2015 , 14, 5367-77	5.6	46
34	Influence of pistachios on performance and exercise-induced inflammation, oxidative stress, immune dysfunction, and metabolite shifts in cyclists: a randomized, crossover trial. <i>PLoS ONE</i> , 2014 , 9, e113725	3.7	44
33	Precision of a Clinical Metabolomics Profiling Platform for Use in the Identification of Inborn Errors of Metabolism. <i>journal of applied laboratory medicine, The</i> , 2020 , 5, 342-356	2	42
32	Pancreatic beta-cell lipoprotein lipase independently regulates islet glucose metabolism and normal insulin secretion. <i>Journal of Biological Chemistry</i> , 2005 , 280, 9023-9	5.4	42
31	Molecular and biochemical properties and physiological roles of plant phospholipase D. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 1999 , 1439, 151-66	5	41
30	Metabolomics in the clinic: A review of the shared and unique features of untargeted metabolomics for clinical research and clinical testing. <i>Journal of Mass Spectrometry</i> , 2018 , 53, 1143-1154	2.2	40
29	Inactivation of hypothalamic FAS protects mice from diet-induced obesity and inflammation. <i>Journal of Lipid Research</i> , 2009 , 50, 630-40	6.3	35
28	Elucidation of the complex metabolic profile of cerebrospinal fluid using an untargeted biochemical profiling assay. <i>Molecular Genetics and Metabolism</i> , 2017 , 121, 83-90	3.7	33
27	Metabolite Profiles of the Serum of Patients with Non-Small Cell Carcinoma. <i>Journal of Thoracic Oncology</i> , 2016 , 11, 72-8	8.9	33
26	Impaired metabolic reactivity to oxidative stress in early psychosis patients. <i>Schizophrenia Bulletin</i> , 2014 , 40, 973-83	1.3	31
25	High-temperature enzymatic breakdown of cellulose. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 5199-206	4.8	31
24	Plasma metabolomic profiles of breast cancer patients after short-term limonene intervention. <i>Cancer Prevention Research</i> , 2015 , 8, 86-93	3.2	27
23	Evidence for and characterization of Ca ²⁺ binding to the catalytic region of Arabidopsis thaliana phospholipase Dbeta. <i>Journal of Biological Chemistry</i> , 2004 , 279, 47833-9	5.4	27
22	Metabolomics Study of the Effects of Inflammation, Hypoxia, and High Glucose on Isolated Human Pancreatic Islets. <i>Journal of Proteome Research</i> , 2017 , 16, 2294-2306	5.6	26
21	IL-6 Linkage to Exercise-Induced Shifts in Lipid-Related Metabolites: A Metabolomics-Based Analysis. <i>Journal of Proteome Research</i> , 2017 , 16, 970-977	5.6	20
20	Decreased fetal size is associated with beta-cell hyperfunction in early life and failure with age. <i>Diabetes</i> , 2008 , 57, 2698-707	0.9	18
19	Global biochemical profiling identifies hydroxyypyruvate as a potential mediator of type 2 diabetes in mice and humans. <i>Diabetes</i> , 2015 , 64, 1383-94	0.9	17
18	Circulating levels of endocannabinoids and oxylipins altered by dietary lipids in older women are likely associated with previously identified gene targets. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016 , 1861, 1693-1704	5	17

17	2-Pyrrolidinone and Succinimide as Clinical Screening Biomarkers for GABA-Transaminase Deficiency: Anti-seizure Medications Impact Accurate Diagnosis. <i>Frontiers in Neuroscience</i> , 2019 , 13, 394	5.1	15
16	Examination of physiological function and biochemical disorders in a rat model of prolonged asphyxia-induced cardiac arrest followed by cardio pulmonary bypass resuscitation. <i>PLoS ONE</i> , 2014 , 9, e112012	3.7	15
15	Clinical Metabolomics to Segregate Aromatic Amino Acid Decarboxylase Deficiency From Drug-Induced Metabolite Elevations. <i>Pediatric Neurology</i> , 2017 , 75, 66-72	2.9	14
14	The structure of rice weevil pectin methylesterase. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014 , 70, 1480-4	1.1	11
13	Untargeted metabolomics identifies unique though benign biochemical changes in patients with pathogenic variants in. <i>Molecular Genetics and Metabolism Reports</i> , 2019 , 18, 14-18	1.8	10
12	Lipid profile of human synovial fluid following intra-articular ankle fracture. <i>Journal of Orthopaedic Research</i> , 2017 , 35, 657-666	3.8	9
11	Comparison of Untargeted Metabolomic Profiling vs Traditional Metabolic Screening to Identify Inborn Errors of Metabolism. <i>JAMA Network Open</i> , 2021 , 4, e2114155	10.4	9
10	Beta-aminoisobutyric acid is released by contracting human skeletal muscle and lowers insulin release from INS-1 832/3 cells by mediating mitochondrial energy metabolism. <i>Metabolism Open</i> , 2020 , 7, 100053	2.8	8
9	Untargeted metabolomics as an unbiased approach to the diagnosis of inborn errors of metabolism of the non-oxidative branch of the pentose phosphate pathway. <i>Molecular Genetics and Metabolism</i> , 2020 , 131, 147-154	3.7	6
8	Therapeutic Strategies to Increase Human Cell Growth and Proliferation by Regulating mTOR and GSK-3/βCatenin Pathways. <i>The Open Endocrinology Journal</i> , 2010 , 4,		5
7	Clinical, biochemical, mitochondrial, and metabolomic aspects of methylmalonate semialdehyde dehydrogenase deficiency: Report of a fifth case. <i>Molecular Genetics and Metabolism</i> , 2020 , 129, 272-277	3.7	5
6	Breathing new life into clinical testing and diagnostics: perspectives on volatile biomarkers from breath.. <i>Critical Reviews in Clinical Laboratory Sciences</i> , 2022 , 1-20	9.4	5
5	Increases in bioactive lipids accompany early metabolic changes associated with cell expansion in response to short-term high-fat diet. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018 , 315, E1251-E1263	6	4
4	Plasma Metabolite Profiling and Search for Biomarkers of Metabolic Dysfunction in Dogs Undergoing Rapid Weight Gain. <i>Current Metabolomics</i> , 2015 , 3, 102-121	1	4
3	Assaying different types of plant phospholipase D activities in vitro. <i>Methods in Molecular Biology</i> , 2013 , 1009, 205-17	1.4	3
2	The SARS-CoV-2 viral load in COVID-19 patients is lower on face mask filters than on nasopharyngeal swabs. <i>Scientific Reports</i> , 2021 , 11, 13476	4.9	3
1	Metabolomic analysis of Shiga toxin 2a-induced injury in conditionally immortalized glomerular endothelial cells. <i>Metabolomics</i> , 2019 , 15, 131	4.7	