

Thomas C Pulinilkunnil

List of Publications by Year in descending order

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Version: 2024-02-01

92
papers

6,102
citations

87888

38
h-index

74163

75
g-index

94
all docs

94
docs citations

94
times ranked

9880
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) Tj ETQq1 1 0.784314 rgBT /Overclock 10 Tf 50,742 1,430	9.1	10
2	Single phosphorylation sites in Acc1 and Acc2 regulate lipid homeostasis and the insulin-sensitizing effects of metformin. <i>Nature Medicine</i> , 2013, 19, 1649-1654.	30.7	674
3	Nicotinamide N-methyltransferase knockdown protects against diet-induced obesity. <i>Nature</i> , 2014, 508, 258-262.	27.8	387
4	Short Communication: Ischemia/Reperfusion Tolerance Is Time-of-Day-Dependent. <i>Circulation Research</i> , 2010, 106, 546-550.	4.5	215
5	Autophagic dysregulation in doxorubicin cardiomyopathy. <i>Journal of Molecular and Cellular Cardiology</i> , 2017, 104, 1-8.	1.9	153
6	Lysosomal Biology and Function: Modern View of Cellular Debris Bin. <i>Cells</i> , 2020, 9, 1131.	4.1	144
7	Impact of Reduced ATGL-Mediated Adipocyte Lipolysis on Obesity-Associated Insulin Resistance and Inflammation in Male Mice. <i>Endocrinology</i> , 2015, 156, 3610-3624.	2.8	143
8	Cardiomyocyte apoptosis induced by short-term diabetes requires mitochondrial GSH depletion. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005, 289, H768-H776.	3.2	119
9	AMPK phosphorylation of ACC2 is required for skeletal muscle fatty acid oxidation and insulin sensitivity in mice. <i>Diabetologia</i> , 2014, 57, 1693-1702.	6.3	105
10	The MiTF/TFE Family of Transcription Factors: Master Regulators of Organelle Signaling, Metabolism, and Stress Adaptation. <i>Molecular Cancer Research</i> , 2017, 15, 1637-1643.	3.4	102
11	Single-Dose Dexamethasone Induces Whole-Body Insulin Resistance and Alters Both Cardiac Fatty Acid and Carbohydrate Metabolism. <i>Diabetes</i> , 2004, 53, 1790-1797.	0.6	101
12	Adipose Triglyceride Lipase Deficiency Causes Tissue-specific Changes in Insulin Signaling. <i>Journal of Biological Chemistry</i> , 2009, 284, 30218-30229.	3.4	101
13	Direct Regulation of Myocardial Triglyceride Metabolism by the Cardiomyocyte Circadian Clock. <i>Journal of Biological Chemistry</i> , 2010, 285, 2918-2929.	3.4	96
14	Myocardial ATGL Overexpression Decreases the Reliance on Fatty Acid Oxidation and Protects against Pressure Overload-Induced Cardiac Dysfunction. <i>Molecular and Cellular Biology</i> , 2012, 32, 740-750.	2.3	95
15	Gene knockout of Acc2 has little effect on body weight, fat mass, or food intake. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 7598-7603.	7.1	93
16	Doxorubicin impairs cardiomyocyte viability by suppressing transcription factor EB expression and disrupting autophagy. <i>Biochemical Journal</i> , 2016, 473, 3769-3789.	3.7	90
17	The metabolic switch AMPK regulates cardiac heparin-releasable lipoprotein lipase. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005, 288, E246-E253.	3.5	83
18	Myocardial Adipose Triglyceride Lipase Overexpression Protects Diabetic Mice From the Development of Lipotoxic Cardiomyopathy. <i>Diabetes</i> , 2013, 62, 1464-1477.	0.6	78

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19	Role of branched-chain amino acid catabolizing enzymes in intertissue signaling, metabolic remodeling, and energy homeostasis. <i>FASEB Journal</i> , 2019, 33, 8711-8731.	0.5	76
20	Adrenergic Regulation of AMP-activated Protein Kinase in Brown Adipose Tissue in Vivo. <i>Journal of Biological Chemistry</i> , 2011, 286, 8798-8809.	3.4	74
21	Neuronal Protein Tyrosine Phosphatase 1B Deficiency Results in Inhibition of Hypothalamic AMPK and Isoform-Specific Activation of AMPK in Peripheral Tissues. <i>Molecular and Cellular Biology</i> , 2009, 29, 4563-4573.	2.3	72
22	Cardiac lipoprotein lipase: Metabolic basis for diabetic heart disease. <i>Cardiovascular Research</i> , 2006, 69, 329-340.	3.8	70
23	The role of ubiquitin ligases in cardiac disease. <i>Journal of Molecular and Cellular Cardiology</i> , 2014, 71, 43-53.	1.9	70
24	Cardiomyocyte-specific ablation of CD36 improves post-ischemic functional recovery. <i>Journal of Molecular and Cellular Cardiology</i> , 2013, 63, 180-188.	1.9	63
25	Skeletal Muscle Triacylglycerol Hydrolysis Does Not Influence Metabolic Complications of Obesity. <i>Diabetes</i> , 2013, 62, 3350-3361.	0.6	60
26	Myocardial triacylglycerol metabolism. <i>Journal of Molecular and Cellular Cardiology</i> , 2013, 55, 101-110.	1.9	59
27	Glucolipotoxicity diminishes cardiomyocyte TFEB and inhibits lysosomal autophagy during obesity and diabetes. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 1893-1910.	2.4	59
28	Cardiac-specific adipose triglyceride lipase overexpression protects from cardiac steatosis and dilated cardiomyopathy following diet-induced obesity. <i>International Journal of Obesity</i> , 2014, 38, 205-215.	3.4	58
29	AMPK control of myocardial fatty acid metabolism fluctuates with the intensity of insulin-deficient diabetes. <i>Journal of Molecular and Cellular Cardiology</i> , 2007, 42, 333-342.	1.9	56
30	Metformin influences cardiomyocyte cell death by pathways that are dependent and independent of caspase-3. <i>Diabetologia</i> , 2006, 49, 2174-2184.	6.3	53
31	Induction of mitochondrial oxidative damage and cardiac dysfunction by chronic provision of dietary ω -6 polyunsaturated fatty acids. <i>Free Radical Biology and Medicine</i> , 2006, 41, 1413-1424.	2.9	52
32	Early structural and metabolic cardiac remodeling in response to inducible adipose triglyceride lipase ablation. <i>Cardiovascular Research</i> , 2013, 99, 442-451.	3.8	52
33	Cardiac complications of congenital disorders of glycosylation (CDG): a systematic review of the literature. <i>Journal of Inherited Metabolic Disease</i> , 2017, 40, 657-672.	3.6	50
34	Validation of optimal reference genes for quantitative real time PCR in muscle and adipose tissue for obesity and diabetes research. <i>Scientific Reports</i> , 2017, 7, 3612.	3.3	49
35	AMPK-Dependent Inhibitory Phosphorylation of ACC Is Not Essential for Maintaining Myocardial Fatty Acid Oxidation. <i>Circulation Research</i> , 2014, 115, 518-524.	4.5	43
36	Evidence for rapid metabolic switching through lipoprotein lipase occupation of endothelial-binding sites. <i>Journal of Molecular and Cellular Cardiology</i> , 2003, 35, 1093-1103.	1.9	41

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37	Autotaxin-LPA signaling contributes to obesity-induced insulin resistance in muscle and impairs mitochondrial metabolism. <i>Journal of Lipid Research</i> , 2018, 59, 1805-1817.	4.2	41
38	Role of dietary fatty acids and acute hyperglycemia in modulating cardiac cell death. <i>Nutrition</i> , 2004, 20, 916-923.	2.4	40
39	Cardiac triglyceride accumulation following acute lipid excess occurs through activation of a FoxO1- β -inositol 1,4,5-trisphosphate-CD36 pathway. <i>Free Radical Biology and Medicine</i> , 2011, 51, 352-363.	2.9	39
40	Myocardial Ketones Metabolism in Heart Failure. <i>Journal of Cardiac Failure</i> , 2020, 26, 998-1005.	1.7	36
41	Inhibition of β -Cell Sodium-Calcium Exchange Enhances Glucose-Dependent Elevations in Cytoplasmic Calcium and Insulin Secretion. <i>Diabetes</i> , 2010, 59, 1686-1693.	0.6	35
42	Circulating triglyceride lipolysis facilitates lipoprotein lipase translocation from cardiomyocyte to myocardial endothelial lining. <i>Cardiovascular Research</i> , 2003, 59, 788-797.	3.8	34
43	Lysophosphatidic acid-mediated augmentation of cardiomyocyte lipoprotein lipase involves actin cytoskeleton reorganization. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005, 288, H2802-H2810.	3.2	32
44	Distinct Early Signaling Events Resulting From the Expression of the PRKAG2 R302Q Mutant of AMPK Contribute to Increased Myocardial Glycogen. <i>Circulation: Cardiovascular Genetics</i> , 2009, 2, 457-466.	5.1	31
45	Brief episode of STZ-induced hyperglycemia produces cardiac abnormalities in rats fed a diet rich in n-6 PUFA. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 287, H2518-H2527.	3.2	29
46	Increased efflux of glutathione conjugate in acutely diabetic cardiomyocytes. <i>Canadian Journal of Physiology and Pharmacology</i> , 2004, 82, 879-887.	1.4	29
47	Cardiac glycogen accumulation after dexamethasone is regulated by AMPK. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 295, H1753-H1762.	3.2	29
48	Adipose triglyceride lipase deletion from adipocytes, but not skeletal myocytes, impairs acute exercise performance in mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015, 308, E879-E890.	3.5	29
49	Altered cardiac fatty acid composition and utilization following dexamethasone-induced insulin resistance. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006, 291, E420-E427.	3.5	28
50	Autotaxin Is Regulated by Glucose and Insulin in Adipocytes. <i>Endocrinology</i> , 2017, 158, 791-803.	2.8	28
51	A lysosome independent role for TFEB in activating DNA repair and inhibiting apoptosis in breast cancer cells. <i>Biochemical Journal</i> , 2020, 477, 137-160.	3.7	28
52	β -Agonist stimulation produces changes in cardiac AMPK and coronary lumen LPL only during increased workload. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005, 288, E1120-E1127.	3.5	26
53	Branched-chain ketoacid overload inhibits insulin action in the muscle. <i>Journal of Biological Chemistry</i> , 2020, 295, 15597-15621.	3.4	26
54	The Pathophysiology of Cardiac Hypertrophy and Heart Failure. , 2014, , 51-78.		23

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55	Loss of function of transcription factor EB remodels lipid metabolism and cell death pathways in the cardiomyocyte. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020, 1866, 165832.	3.8	22
56	Whey Peptides Stimulate Differentiation and Lipid Metabolism in Adipocytes and Ameliorate Lipotoxicity-Induced Insulin Resistance in Muscle Cells. <i>Nutrients</i> , 2020, 12, 425.	4.1	22
57	Serum GDF15, a Promising Biomarker in Obese Patients Undergoing Heart Surgery. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 103.	2.4	21
58	Deletion of BCATm increases insulin-stimulated glucose oxidation in the heart. <i>Metabolism: Clinical and Experimental</i> , 2021, 124, 154871.	3.4	18
59	Skeletal muscle ACC2 S212 phosphorylation is not required for the control of fatty acid oxidation during exercise. <i>Physiological Reports</i> , 2015, 3, e12444.	1.7	16
60	Palmitoyl lysophosphatidylcholine mediated mobilization of LPL to the coronary luminal surface requires PKC activation. <i>Journal of Molecular and Cellular Cardiology</i> , 2004, 37, 931-938.	1.9	15
61	Cardiomyocyte specific adipose triglyceride lipase overexpression prevents doxorubicin induced cardiac dysfunction in female mice. <i>Heart</i> , 2013, 99, 1041-1047.	2.9	15
62	Lysophosphatidic acid receptor mRNA levels in heart and white adipose tissue are associated with obesity in mice and humans. <i>PLoS ONE</i> , 2017, 12, e0189402.	2.5	15
63	Inhibiting BCKDK in triple negative breast cancer suppresses protein translation, impairs mitochondrial function, and potentiates doxorubicin cytotoxicity. <i>Cell Death Discovery</i> , 2021, 7, 241.	4.7	14
64	Heparanase protects the heart against chemical or ischemia/reperfusion injury. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 131, 29-40.	1.9	13
65	Adverse Outcomes in Obese Cardiac Surgery Patients Correlates With Altered Branched-Chain Amino Acid Catabolism in Adipose Tissue and Heart. <i>Frontiers in Endocrinology</i> , 2020, 11, 534.	3.5	13
66	Heparanase Overexpression Induces Glucagon Resistance and Protects Animals From Chemically Induced Diabetes. <i>Diabetes</i> , 2017, 66, 45-57.	0.6	12
67	Dieldrin Augments mTOR Signaling and Regulates Genes Associated with Cardiovascular Disease in the Adult Zebrafish Heart (<i>Danio rerio</i>). <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2017, 361, 375-385.	2.5	11
68	Changes in Circulating Monocyte Subsets (CD16 Expression) and Neutrophil-to-Lymphocyte Ratio Observed in Patients Undergoing Cardiac Surgery. <i>Frontiers in Cardiovascular Medicine</i> , 2017, 4, 12.	2.4	11
69	Fibrosis independent atrial fibrillation in older patients is driven by substrate leukocyte infiltration: diagnostic and prognostic implications to patients undergoing cardiac surgery. <i>Journal of Translational Medicine</i> , 2019, 17, 413.	4.4	11
70	Impact of Obesity on Postoperative Outcomes following cardiac Surgery (The OPOS study): rationale and design of an investigator-initiated prospective study. <i>BMJ Open</i> , 2019, 9, e023418.	1.9	11
71	Acute intralipid infusion reduces cardiac luminal lipoprotein lipase but recruits additional enzyme from cardiomyocytes. <i>Cardiovascular Research</i> , 2006, 72, 124-133.	3.8	10
72	Ischemia-reperfusion alters cardiac lipoprotein lipase. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2010, 1801, 171-175.	2.4	7

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73	Nanoparticle surface-enhanced Raman spectroscopy as a noninvasive, label-free tool to monitor hematological malignancy. <i>Nanomedicine</i> , 2021, 16, 2175-2188.	3.3	6
74	Cyanidin-3-O-Glucoside Rich Extract From Haskap Berry Improves Glucose Homeostasis and Insulin Sensitivity in Diet-Induced Obese Mice. <i>Canadian Journal of Diabetes</i> , 2018, 42, S55.	0.8	3
75	Insulin Signaling in Cardiac Health and Disease. , 2017, , 317-346.		1
76	Branched-Chain $\hat{\pm}$ -Ketoacids Regulate Insulin and mTOR Signalling in Skeletal and Cardiac Muscle. <i>Canadian Journal of Diabetes</i> , 2018, 42, S56.	0.8	1
77	Editorial: Novel Concepts in Cardiac Energy Metabolism: From Biology to Disease. <i>Frontiers in Cardiovascular Medicine</i> , 2019, 6, 97.	2.4	1
78	Disrupted branched-chain amino acid catabolism impair cardiac insulin signaling and is associated with adverse cardiometabolic outcomes. <i>Journal of Molecular and Cellular Cardiology</i> , 2021, 153, 93-94.	1.9	1
79	Hemodynamic Assessment and In vivo Catabolism of Adenosine 5 $\hat{\epsilon}$ TM -triphosphate in Doxorubicin or Isoproterenol-induced Cardiovascular Toxicity. <i>Drug Metabolism Letters</i> , 2021, 14, 80-88.	0.8	1
80	Regulation of autophagy $\hat{\epsilon}$ ”transcriptional, posttranscriptional, translational, and posttranslational mechanisms. , 2022, , 21-38.		1
81	289 Cardiomyocyte-specific ATGL over-expression prevents doxorubicin-induced cardiac dysfunction in mice. <i>Canadian Journal of Cardiology</i> , 2011, 27, S167-S168.	1.7	0
82	Diving into the ice bucket challenge. <i>Cmaj</i> , 2014, 186, 1404-1405.	2.0	0
83	Regulation of Autotaxin and its Role in Obesity-Induced Tissue Insulin Resistance. <i>Canadian Journal of Diabetes</i> , 2016, 40, S19-S20.	0.8	0
84	GDF15 a novel circulating cardiokine is secreted from the atrial tissue of obese patients with established heart disease. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 124, 121.	1.9	0
85	Adverse Cardiometabolic Outcomes in Obese Patients Correlates Strongly with Defective Branched-chain Amino Acid Catabolism. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 124, 121-122.	1.9	0
86	Restoring TFEB action attenuates cardiomyocyte dysfunction following nutrient overload. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 124, 121.	1.9	0
87	Cardiomyocyte Dysfunction Following Nutrient Overload is Attenuated by Restoring Transcription Factor EB Action. <i>Canadian Journal of Diabetes</i> , 2018, 42, S54.	0.8	0
88	Branched chain $\hat{\pm}$ -ketoacids: Novel Regulator of Insulin and mTOR Signalling in Skeletal and Cardiac Muscle. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 124, 123-124.	1.9	0
89	Myocardial Insulin Signaling and Autophagy. , 2018, , 101-115.		0
90	IS BODY MASS INDEX THE BEST MEASURE OF OBESITY IN PATIENTS UNDERGOING CARDIAC SURGERY?. <i>Canadian Journal of Cardiology</i> , 2019, 35, S119-S120.	1.7	0

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91	Whey peptides exacerbate body weight gain and perturb systemic glucose and tissue lipid metabolism in male high-fat fed mice. Food and Function, 2021, 12, 3552-3561.	4.6	0
92	AMPK and Metabolic Remodeling in Cardiac Disease. , 2012, , 113-150.		0