

Trevor J Biden

List of Publications by Year in descending order

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78
papers

7,380
citations

66234

42
h-index

69108

77
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78
all docs

78
docs citations

78
times ranked

9335
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50,742 1,430	4.3	10
2	Endoplasmic reticulum stress contributes to beta cell apoptosis in type 2 diabetes. <i>Diabetologia</i> , 2007, 50, 752-763.	2.9	735
3	Ceramide Generation Is Sufficient to Account for the Inhibition of the Insulin-stimulated PKB Pathway in C2C12 Skeletal Muscle Cells Pretreated with Palmitate. <i>Journal of Biological Chemistry</i> , 1999, 274, 24202-24210.	1.6	522
4	Rapid mobilization of Ca ²⁺ from rat insulinoma microsomes by inositol-1,4,5-trisphosphate. <i>Nature</i> , 1984, 309, 562-564.	13.7	421
5	Expression Profiling of Palmitate- and Oleate-Regulated Genes Provides Novel Insights Into the Effects of Chronic Lipid Exposure on Pancreatic β -Cell Function. <i>Diabetes</i> , 2002, 51, 977-987.	0.3	177
6	Lipotoxic endoplasmic reticulum stress, β cell failure, and type 2 diabetes mellitus. <i>Trends in Endocrinology and Metabolism</i> , 2014, 25, 389-398.	3.1	169
7	Increased Fatty Acid Desaturation and Enhanced Expression of Stearoyl Coenzyme A Desaturase Protects Pancreatic β -Cells from Lipoapoptosis. <i>Diabetes</i> , 2005, 54, 2917-2924.	0.3	165
8	G protein-coupled receptor (GPR)40-dependent potentiation of insulin secretion in mouse islets is mediated by protein kinase D1. <i>Diabetologia</i> , 2012, 55, 2682-2692.	2.9	139
9	Reduced endoplasmic reticulum (ER)-to-Golgi protein trafficking contributes to ER stress in lipotoxic mouse beta cells by promoting protein overload. <i>Diabetologia</i> , 2009, 52, 2369-2373.	2.9	133
10	A lipidomic screen of palmitate-treated MIN6 β -cells links sphingolipid metabolites with endoplasmic reticulum (ER) stress and impaired protein trafficking. <i>Biochemical Journal</i> , 2011, 435, 267-276.	1.7	132
11	Chronic Hyperglycemia, Independent of Plasma Lipid Levels, Is Sufficient for the Loss of β -Cell Differentiation and Secretory Function in the db/db Mouse Model of Diabetes. <i>Diabetes</i> , 2005, 54, 2755-2763.	0.3	130
12	PKC δ Is Required for Mitochondrial-dependent Apoptosis in Salivary Epithelial Cells. <i>Journal of Biological Chemistry</i> , 2001, 276, 29719-29728.	1.6	127
13	Cytokine-Induced β -Cell Death Is Independent of Endoplasmic Reticulum Stress Signaling. <i>Diabetes</i> , 2008, 57, 3034-3044.	0.3	123
14	Protein Kinase C Function in Muscle, Liver, and β -Cells and Its Therapeutic Implications for Type 2 Diabetes. <i>Diabetes</i> , 2008, 57, 1774-1783.	0.3	122
15	Roles of ceramide and sphingolipids in pancreatic β -cell function and dysfunction. <i>Islets</i> , 2012, 4, 177-187.	0.9	122
16	Improved glucose homeostasis and enhanced insulin signalling in Grb14-deficient mice. <i>EMBO Journal</i> , 2004, 23, 582-593.	3.5	116
17	Alteration of Endoplasmic Reticulum Lipid Rafts Contributes to Lipotoxicity in Pancreatic β -Cells. <i>Journal of Biological Chemistry</i> , 2013, 288, 26569-26582.	1.6	107
18	Failure of the Adaptive Unfolded Protein Response in Islets of Obese Mice Is Linked With Abnormalities in β -Cell Gene Expression and Progression to Diabetes. <i>Diabetes</i> , 2013, 62, 1557-1568.	0.3	105

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19	Protein Kinase C δ Activity Is Necessary for Bcr-Abl-mediated Resistance to Drug-induced Apoptosis. <i>Journal of Biological Chemistry</i> , 1999, 274, 3927-3930.	1.6	104
20	Signal Transduction in Insulin Secretion... <i>Annals of the New York Academy of Sciences</i> , 1986, 488, 317-333.	1.8	98
21	Identification of fatty acid binding protein 4 as an adipokine that regulates insulin secretion during obesity. <i>Molecular Metabolism</i> , 2014, 3, 465-473.	3.0	96
22	Protein Kinase C δ Activation by Interleukin-1 β Stabilizes Inducible Nitric-oxide Synthase mRNA in Pancreatic β -Cells. <i>Journal of Biological Chemistry</i> , 2001, 276, 5368-5374.	1.6	94
23	Phospholipase D1 Regulates Secretagogue-stimulated Insulin Release in Pancreatic β -Cells. <i>Journal of Biological Chemistry</i> , 2004, 279, 27534-27541.	1.6	84
24	Inhibition of PKC δ Improves Glucose-Stimulated Insulin Secretion and Reduces Insulin Clearance. <i>Cell Metabolism</i> , 2007, 6, 320-328.	7.2	80
25	Secretin stimulates cyclic AMP and inositol trisphosphate production in rat pancreatic acinar tissue by two fully independent mechanisms.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1987, 84, 3146-3150.	3.3	78
26	Akt Mediates Insulin-stimulated Phosphorylation of Ndr2. <i>Journal of Biological Chemistry</i> , 2004, 279, 18623-18632.	1.6	76
27	Quantitative and functional characterization of muscarinic receptor subtypes in insulin-secreting cell lines and rat pancreatic islets. <i>Diabetes</i> , 2000, 49, 392-398.	0.3	75
28	Muscle lipid accumulation and protein kinase C activation in the insulin-resistant chronically glucose-infused rat. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1999, 277, E1070-E1076.	1.8	71
29	High dietary fat and sucrose result in an extensive and time-dependent deterioration in health of multiple physiological systems in mice. <i>Journal of Biological Chemistry</i> , 2018, 293, 5731-5745.	1.6	65
30	Differential regulation of adaptive and apoptotic unfolded protein response signalling by cytokine-induced nitric oxide production in mouse pancreatic beta cells. <i>Diabetologia</i> , 2011, 54, 1766-1776.	2.9	58
31	Inhibition of Protein Kinase C δ Protects Rat INS-1 Cells Against Interleukin-1 β and Streptozotocin-Induced Apoptosis. <i>Diabetes</i> , 2002, 51, 317-324.	0.3	56
32	Treatment of type 2 diabetes with the designer cytokine IC7Fc. <i>Nature</i> , 2019, 574, 63-68.	13.7	55
33	Time-dependent effects of Prkce deletion on glucose homeostasis and hepatic lipid metabolism on dietary lipid oversupply in mice. <i>Diabetologia</i> , 2011, 54, 1447-1456.	2.9	51
34	Evidence for Selective Coupling of β -1-Adrenergic Receptors to Phospholipase C- δ 1 in Rat Neonatal Cardiomyocytes. <i>Journal of Biological Chemistry</i> , 2001, 276, 37341-37346.	1.6	50
35	High-fat diet increases autophagic flux in pancreatic beta cells in vivo and ex vivo in mice. <i>Diabetologia</i> , 2015, 58, 2074-2078.	2.9	50
36	Chronic Effects of Fatty Acids on Pancreatic β -Cell Function: New Insights From Functional Genomics. <i>Diabetes</i> , 2004, 53, S159-S165.	0.3	49

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37	Diverse roles for protein kinase C δ and protein kinase C μ in the generation of high-fat-diet-induced glucose intolerance in mice: regulation of lipogenesis by protein kinase C δ . <i>Diabetologia</i> , 2009, 52, 2616-2620.	2.9	49
38	Synergistic Interaction of Y1-Neuropeptide Y and β 1b-Adrenergic Receptors in the Regulation of Phospholipase C, Protein Kinase C, and Arachidonic Acid Production. <i>Journal of Biological Chemistry</i> , 1995, 270, 11789-11796.	1.6	47
39	A redistribution of actin and myosin IIA accompanies Ca ²⁺ -dependent insulin secretion. <i>FEBS Letters</i> , 2001, 492, 101-106.	1.3	47
40	Acute reversal of lipid-induced muscle insulin resistance is associated with rapid alteration in PKC- δ localization. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2000, 279, E1196-E1201.	1.8	45
41	Phosphorylation of Nonmuscle Myosin Heavy Chain IIA on Ser1917 Is Mediated by Protein Kinase C δ II and Coincides with the Onset of Stimulated Degranulation of RBL-2H3 Mast Cells. <i>Journal of Immunology</i> , 2006, 177, 1492-1499.	0.4	45
42	Signal Transduction in Insulin Secretion:.. <i>Annals of the New York Academy of Sciences</i> , 1986, 488, 317-333.	1.8	44
43	Deletion of PKC μ Selectively Enhances the Amplifying Pathways of Glucose-Stimulated Insulin Secretion via Increased Lipolysis in Mouse β -Cells. <i>Diabetes</i> , 2009, 58, 1826-1834.	0.3	43
44	Sulfonylureas as Concomitant Insulin Secretagogues and NLRP3 Inflammasome Inhibitors. <i>ChemMedChem</i> , 2017, 12, 1449-1457.	1.6	42
45	Protein Kinase C Epsilon Deletion in Adipose Tissue, but Not in Liver, Improves Glucose Tolerance. <i>Cell Metabolism</i> , 2019, 29, 183-191.e7.	7.2	42
46	Inhibition of PKC δ induces a PKC δ -dependent apoptotic program in salivary epithelial cells. <i>Cell Death and Differentiation</i> , 2003, 10, 269-277.	5.0	40
47	Lysosomal acid lipase and lipophagy are constitutive negative regulators of glucose-stimulated insulin secretion from pancreatic beta cells. <i>Diabetologia</i> , 2014, 57, 129-139.	2.9	38
48	PKC δ Blues for the β -Cell. <i>Diabetes</i> , 2010, 59, 1-3.	0.3	37
49	Regulation of mitochondrial metabolism in murine skeletal muscle by the medium-chain fatty acid receptor Gpr84. <i>FASEB Journal</i> , 2019, 33, 12264-12276.	0.2	36
50	Structural and Biochemical Studies of Human Galanin: NMR Evidence for Nascent Helical Structures in Aqueous Solution. <i>Biochemistry</i> , 1995, 34, 4538-4545.	1.2	33
51	PKC δ Is Activated But Not Required During Glucose-Induced Insulin Secretion From Rat Pancreatic Islets. <i>Diabetes</i> , 2004, 53, 53-60.	0.3	33
52	Deletion of protein kinase C δ in mice modulates stability of inflammatory genes and protects against cytokine-stimulated beta cell death in vitro and in vivo. <i>Diabetologia</i> , 2011, 54, 380-389.	2.9	33
53	Reversal of chronic alterations of skeletal muscle protein kinase C from fat-fed rats by BRL-49653. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1997, 273, E915-E921.	1.8	32
54	Synergistic cytotoxicity between tamoxifen and the plant toxin persin in human breast cancer cells is dependent on Bim expression and mediated by modulation of ceramide metabolism. <i>Molecular Cancer Therapeutics</i> , 2007, 6, 2777-2785.	1.9	32

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55	SMOC1 is a glucose-responsive hepatokine and therapeutic target for glycemic control. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	29
56	The diverse roles of protein kinase C in pancreatic β -cell function. <i>Biochemical Society Transactions</i> , 2008, 36, 916-919.	1.6	28
57	Increases in phosphorylation of the myosin II heavy chain, but not regulatory light chains, correlate with insulin secretion in rat pancreatic islets and RINm5F cells. <i>Diabetes</i> , 1999, 48, 2383-2389.	0.3	26
58	Disruption of beta cell acetyl-CoA carboxylase-1 in mice impairs insulin secretion and beta cell mass. <i>Diabetologia</i> , 2019, 62, 99-111.	2.9	24
59	Cross-talk between the unfolded protein response and nuclear factor- κ B signalling pathways regulates cytokine-mediated beta cell death in MIN6 cells and isolated mouse islets. <i>Diabetologia</i> , 2012, 55, 2999-3009.	2.9	23
60	Glucose Homeostasis in Mice Is Transglutaminase 2 Independent. <i>PLoS ONE</i> , 2013, 8, e63346.	1.1	23
61	A comprehensive lipidomic screen of pancreatic β -cells using mass spectroscopy defines novel features of glucose-stimulated turnover of neutral lipids, sphingolipids and plasmalogens. <i>Molecular Metabolism</i> , 2016, 5, 404-414.	3.0	23
62	Dilinoleoyl-phosphatidic acid mediates reduced IRS-1 tyrosine phosphorylation in rat skeletal muscle cells and mouse muscle. <i>Diabetologia</i> , 2007, 50, 1732-1742.	2.9	22
63	A Selective Look at Autophagy in Pancreatic β -Cells. <i>Diabetes</i> , 2021, 70, 1229-1241.	0.3	21
64	Nutrient Stimulation Results in a Rapid Ca ²⁺ -dependent Threonine Phosphorylation of Myosin Heavy Chain in Rat Pancreatic Islets and RINm5F Cells. <i>Journal of Biological Chemistry</i> , 1998, 273, 22729-22737.	1.6	20
65	Short-term inhibition of autophagy benefits pancreatic β -cells by augmenting ether lipids and peroxisomal function, and by countering depletion of n-3 polyunsaturated fatty acids after fat-feeding. <i>Molecular Metabolism</i> , 2020, 40, 101023.	3.0	17
66	Exposure to depolarizing concentrations of K ⁺ inhibits hormonally-induced calcium influx in rat liver. <i>Biochemical and Biophysical Research Communications</i> , 1988, 153, 1282-1289.	1.0	16
67	Oleate disrupts cAMP signaling, contributing to potent stimulation of pancreatic β -cell autophagy. <i>Journal of Biological Chemistry</i> , 2019, 294, 1218-1229.	1.6	16
68	Characterization of two forms of protein kinase C $\hat{\iota}$, with different substrate specificities, from skeletal muscle. <i>Biochemical Journal</i> , 1996, 320, 207-214.	1.7	14
69	Phospholipase C- $\hat{\rho}$ Mediates the Hydrolysis of Phosphatidylinositol, but Not of Phosphatidylinositol 4,5-Bisphosphate, in Carbamylcholine-stimulated Islets of Langerhans. <i>Journal of Biological Chemistry</i> , 2001, 276, 19072-19077.	1.6	14
70	Bad News for β -Cell Apoptosis. <i>Diabetes</i> , 2009, 58, 1725-1727.	0.3	14
71	Targeting triglyceride/fatty acid cycling in β -cells as a therapy for augmenting glucose-stimulated insulin secretion. <i>Islets</i> , 2010, 2, 127-129.	0.9	14
72	Role of endoplasmic reticulum stress induction by the plant toxin, persin, in overcoming resistance to the apoptotic effects of tamoxifen in human breast cancer cells. <i>British Journal of Cancer</i> , 2013, 109, 3034-3041.	2.9	14

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73	An Antisense of Protein Kinase C- $\hat{\eta}$ Inhibits Proliferation of Human Airway Smooth Muscle Cells. American Journal of Respiratory Cell and Molecular Biology, 2000, 23, 555-559.	1.4	13
74	Sweet and Sour $\hat{2}$ -Cells: ROS and Hif1 \hat{z} Induce Warburg-Like Lactate Production During Type 2 Diabetes. Diabetes, 2013, 62, 1823-1825.	0.3	12
75	Heparan sulfate proteoglycans in beta cells provide a critical link between endoplasmic reticulum stress, oxidative stress and type 2 diabetes. PLoS ONE, 2021, 16, e0252607.	1.1	9
76	Phospholipase C $\hat{1}$ does not mediate Ca $^{2+}$ responses in neonatal rat cardiomyocytes. FEBS Letters, 2003, 546, 325-328.	1.3	4
77	The potentiating effects of ketone bodies on insulin secretion. Biochemical Society Transactions, 1982, 10, 391-392.	1.6	1
78	P-101: Alterations in the expression and cellular localization of protein kinase C isozymes are associated with insulin resistance in skeletal muscle of the high-fat-fed rat. Experimental and Clinical Endocrinology and Diabetes, 1996, 104, 161-162.	0.6	0