

Trevor J Biden

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

7,380
citations

66343

42
h-index

69250

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 /Overclock 10 Tf 50,742 1,430 | 9.1 | 10 |
| 2 | Endoplasmic reticulum stress contributes to beta cell apoptosis in type 2 diabetes. Diabetologia, 2007, 50, 752-763. | 6.3 | 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. Journal of Biological Chemistry, 1999, 274, 24202-24210. | 3.4 | 522 |
| 4 | Rapid mobilization of Ca ²⁺ from rat insulinoma microsomes by inositol-1,4,5-trisphosphate. Nature, 1984, 309, 562-564. | 27.8 | 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. Diabetes, 2002, 51, 977-987. | 0.6 | 177 |
| 6 | Lipotoxic endoplasmic reticulum stress, β -cell failure, and type 2 diabetes mellitus. Trends in Endocrinology and Metabolism, 2014, 25, 389-398. | 7.1 | 169 |
| 7 | Increased Fatty Acid Desaturation and Enhanced Expression of Stearoyl Coenzyme A Desaturase Protects Pancreatic β -Cells from Lipoapoptosis. Diabetes, 2005, 54, 2917-2924. | 0.6 | 165 |
| 8 | G protein-coupled receptor (GPR)40-dependent potentiation of insulin secretion in mouse islets is mediated by protein kinase D1. Diabetologia, 2012, 55, 2682-2692. | 6.3 | 139 |
| 9 | Reduced endoplasmic reticulum (ER)-to-Golgi protein trafficking contributes to ER stress in lipotoxic mouse beta cells by promoting protein overload. Diabetologia, 2009, 52, 2369-2373. | 6.3 | 133 |
| 10 | A lipidomic screen of palmitate-treated MIN6 β -cells links sphingolipid metabolites with endoplasmic reticulum (ER) stress and impaired protein trafficking. Biochemical Journal, 2011, 435, 267-276. | 3.7 | 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. Diabetes, 2005, 54, 2755-2763. | 0.6 | 130 |
| 12 | PKC δ Is Required for Mitochondrial-dependent Apoptosis in Salivary Epithelial Cells. Journal of Biological Chemistry, 2001, 276, 29719-29728. | 3.4 | 127 |
| 13 | Cytokine-Induced β -Cell Death Is Independent of Endoplasmic Reticulum Stress Signaling. Diabetes, 2008, 57, 3034-3044. | 0.6 | 123 |
| 14 | Protein Kinase C Function in Muscle, Liver, and β -Cells and Its Therapeutic Implications for Type 2 Diabetes. Diabetes, 2008, 57, 1774-1783. | 0.6 | 122 |
| 15 | Roles of ceramide and sphingolipids in pancreatic β -cell function and dysfunction. Islets, 2012, 4, 177-187. | 1.8 | 122 |
| 16 | Improved glucose homeostasis and enhanced insulin signalling in Grb14-deficient mice. EMBO Journal, 2004, 23, 582-593. | 7.8 | 116 |
| 17 | Alteration of Endoplasmic Reticulum Lipid Rafts Contributes to Lipotoxicity in Pancreatic β -Cells. Journal of Biological Chemistry, 2013, 288, 26569-26582. | 3.4 | 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. Diabetes, 2013, 62, 1557-1568. | 0.6 | 105 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Protein Kinase C δ Activity Is Necessary for Bcr-Abl-mediated Resistance to Drug-induced Apoptosis. Journal of Biological Chemistry, 1999, 274, 3927-3930. | 3.4 | 104 |
| 20 | Signal Transduction in Insulin Secretion:.. Annals of the New York Academy of Sciences, 1986, 488, 317-333. | 3.8 | 98 |
| 21 | Identification of fatty acid binding protein 4 as an adipokine that regulates insulin secretion during obesity. Molecular Metabolism, 2014, 3, 465-473. | 6.5 | 96 |
| 22 | Protein Kinase C δ Activation by Interleukin-1 β Stabilizes Inducible Nitric-oxide Synthase mRNA in Pancreatic β -Cells. Journal of Biological Chemistry, 2001, 276, 5368-5374. | 3.4 | 94 |
| 23 | Phospholipase D1 Regulates Secretagogue-stimulated Insulin Release in Pancreatic β -Cells. Journal of Biological Chemistry, 2004, 279, 27534-27541. | 3.4 | 84 |
| 24 | Inhibition of PKC δ Improves Glucose-Stimulated Insulin Secretion and Reduces Insulin Clearance. Cell Metabolism, 2007, 6, 320-328. | 16.2 | 80 |
| 25 | Secretin stimulates cyclic AMP and inositol trisphosphate production in rat pancreatic acinar tissue by two fully independent mechanisms.. Proceedings of the National Academy of Sciences of the United States of America, 1987, 84, 3146-3150. | 7.1 | 78 |
| 26 | Akt Mediates Insulin-stimulated Phosphorylation of Ndrp2. Journal of Biological Chemistry, 2004, 279, 18623-18632. | 3.4 | 76 |
| 27 | Quantitative and functional characterization of muscarinic receptor subtypes in insulin-secreting cell lines and rat pancreatic islets. Diabetes, 2000, 49, 392-398. | 0.6 | 75 |
| 28 | Muscle lipid accumulation and protein kinase C activation in the insulin-resistant chronically glucose-infused rat. American Journal of Physiology - Endocrinology and Metabolism, 1999, 277, E1070-E1076. | 3.5 | 71 |
| 29 | High dietary fat and sucrose result in an extensive and time-dependent deterioration in health of multiple physiological systems in mice. Journal of Biological Chemistry, 2018, 293, 5731-5745. | 3.4 | 65 |
| 30 | Differential regulation of adaptive and apoptotic unfolded protein response signalling by cytokine-induced nitric oxide production in mouse pancreatic beta cells. Diabetologia, 2011, 54, 1766-1776. | 6.3 | 58 |
| 31 | Inhibition of Protein Kinase C δ Protects Rat INS-1 Cells Against Interleukin-1 α and Streptozotocin-Induced Apoptosis. Diabetes, 2002, 51, 317-324. | 0.6 | 56 |
| 32 | Treatment of type 2 diabetes with the designer cytokine IC7Fc. Nature, 2019, 574, 63-68. | 27.8 | 55 |
| 33 | Time-dependent effects of Prkce deletion on glucose homeostasis and hepatic lipid metabolism on dietary lipid oversupply in mice. Diabetologia, 2011, 54, 1447-1456. | 6.3 | 51 |
| 34 | Evidence for Selective Coupling of β -1-Adrenergic Receptors to Phospholipase C- δ 1 in Rat Neonatal Cardiomyocytes. Journal of Biological Chemistry, 2001, 276, 37341-37346. | 3.4 | 50 |
| 35 | High-fat diet increases autophagic flux in pancreatic beta cells in vivo and ex vivo in mice. Diabetologia, 2015, 58, 2074-2078. | 6.3 | 50 |
| 36 | Chronic Effects of Fatty Acids on Pancreatic β -Cell Function: New Insights From Functional Genomics. Diabetes, 2004, 53, S159-S165. | 0.6 | 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. | 6.3 | 49 |
| 38 | Synergistic Interaction of Y1-Neuropeptide Y and β -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. | 3.4 | 47 |
| 39 | A redistribution of actin and myosin IIA accompanies Ca^{2+} -dependent insulin secretion. <i>FEBS Letters</i> , 2001, 492, 101-106. | 2.8 | 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. | 3.5 | 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. | 0.8 | 45 |
| 42 | Signal Transduction in Insulin Secretion... <i>Annals of the New York Academy of Sciences</i> , 1986, 488, 317-333. | 3.8 | 44 |
| 43 | Deletion of PKC δ Selectively Enhances the Amplifying Pathways of Glucose-Stimulated Insulin Secretion via Increased Lipolysis in Mouse β -Cells. <i>Diabetes</i> , 2009, 58, 1826-1834. | 0.6 | 43 |
| 44 | Sulfonylureas as Concomitant Insulin Secretagogues and NLRP3 Inflammasome Inhibitors. <i>ChemMedChem</i> , 2017, 12, 1449-1457. | 3.2 | 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. | 16.2 | 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. | 11.2 | 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. | 6.3 | 38 |
| 48 | PKC δ Blues for the β -Cell. <i>Diabetes</i> , 2010, 59, 1-3. | 0.6 | 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. | 0.5 | 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. | 2.5 | 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. | 0.6 | 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. | 6.3 | 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. | 3.5 | 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. | 4.1 | 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, . | 12.4 | 29 |
| 56 | The diverse roles of protein kinase C in pancreatic β -cell function. <i>Biochemical Society Transactions</i> , 2008, 36, 916-919. | 3.4 | 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. | 0.6 | 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. | 6.3 | 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. | 6.3 | 23 |
| 60 | Glucose Homeostasis in Mice Is Transglutaminase 2 Independent. <i>PLoS ONE</i> , 2013, 8, e63346. | 2.5 | 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. | 6.5 | 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. | 6.3 | 22 |
| 63 | A Selective Look at Autophagy in Pancreatic β -Cells. <i>Diabetes</i> , 2021, 70, 1229-1241. | 0.6 | 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. | 3.4 | 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. | 6.5 | 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. | 2.1 | 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. | 3.4 | 16 |
| 68 | Characterization of two forms of protein kinase C $\hat{\pm}$, with different substrate specificities, from skeletal muscle. <i>Biochemical Journal</i> , 1996, 320, 207-214. | 3.7 | 14 |
| 69 | Phospholipase C- $\hat{\beta}$ 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. | 3.4 | 14 |
| 70 | Bad News for β -Cell Apoptosis. <i>Diabetes</i> , 2009, 58, 1725-1727. | 0.6 | 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. | 1.8 | 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. | 6.4 | 14 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | An Antisense of Protein Kinase C- η Inhibits Proliferation of Human Airway Smooth Muscle Cells. American Journal of Respiratory Cell and Molecular Biology, 2000, 23, 555-559. | 2.9 | 13 |
| 74 | Sweet and Sour β -Cells: ROS and Hif1 α Induce Warburg-Like Lactate Production During Type 2 Diabetes. Diabetes, 2013, 62, 1823-1825. | 0.6 | 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. | 2.5 | 9 |
| 76 | Phospholipase C δ 1 does not mediate Ca ²⁺ responses in neonatal rat cardiomyocytes. FEBS Letters, 2003, 546, 325-328. | 2.8 | 4 |
| 77 | The potentiating effects of ketone bodies on insulin secretion. Biochemical Society Transactions, 1982, 10, 391-392. | 3.4 | 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. | 1.2 | 0 |