

# Brian T Layden

## List of Publications by Year in descending order

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Version: 2024-02-01

67  
papers

2,719  
citations

218677

26  
h-index

214800

47  
g-index

70  
all docs

70  
docs citations

70  
times ranked

4793  
citing authors

#	ARTICLE	IF	CITATIONS
1	Short chain fatty acids and their receptors: new metabolic targets. <i>Translational Research</i> , 2013, 161, 131-140.	5.0	251
2	Metabolite-Sensing Receptor Ffar2 Regulates Colonic Group 3 Innate Lymphoid Cells and Gut Immunity. <i>Immunity</i> , 2019, 51, 871-884.e6.	14.3	203
3	Role of Short Chain Fatty Acid Receptors in Intestinal Physiology and Pathophysiology. , 2018, 8, 1091-1115.		141
4	An Acetate-Specific GPCR, FFAR2, Regulates Insulin Secretion. <i>Molecular Endocrinology</i> , 2015, 29, 1055-1066.	3.7	139
5	Identification of <i>HKDC1</i> and <i>BACE2</i> as Genes Influencing Glycemic Traits During Pregnancy Through Genome-Wide Association Studies. <i>Diabetes</i> , 2013, 62, 3282-3291.	0.6	119
6	Acetate coordinates neutrophil and ILC3 responses against <i>C. difficile</i> through FFAR2. <i>Journal of Experimental Medicine</i> , 2020, 217, .	8.5	116
7	New Insights Into Gestational Glucose Metabolism: Lessons Learned From 21st Century Approaches. <i>Diabetes</i> , 2015, 64, 327-334.	0.6	114
8	Autophagy Differentially Regulates Insulin Production and Insulin Sensitivity. <i>Cell Reports</i> , 2018, 23, 3286-3299.	6.4	102
9	SCFA Receptors in Pancreatic $\beta^2$ Cells: Novel Diabetes Targets?. <i>Trends in Endocrinology and Metabolism</i> , 2016, 27, 653-664.	7.1	87
10	Coordinated regulatory variation associated with gestational hyperglycaemia regulates expression of the novel hexokinase HKDC1. <i>Nature Communications</i> , 2015, 6, 6069.	12.8	83
11	Maternal short-chain fatty acids are associated with metabolic parameters in mothers and newborns. <i>Translational Research</i> , 2014, 164, 153-157.	5.0	73
12	FFAR3 modulates insulin secretion and global gene expression in mouse islets. <i>Islets</i> , 2015, 7, e1045182.	1.8	62
13	HKDC1 Is a Novel Hexokinase Involved in Whole-Body Glucose Use. <i>Endocrinology</i> , 2016, 157, 3452-3461.	2.8	58
14	The short-chain fatty acid receptor, FFA2, contributes to gestational glucose homeostasis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015, 309, E840-E851.	3.5	57
15	Expression of Free Fatty Acid Receptor 2 by Dendritic Cells Prevents Their Expression of Interleukin 27 and Is Required for Maintenance of Mucosal Barrier and Immune Response Against Colorectal Tumors in Mice. <i>Gastroenterology</i> , 2020, 158, 1359-1372.e9.	1.3	54
16	Risk of amputations associated with SGLT2 inhibitors compared to DPP4 inhibitors: A propensity-matched cohort study. <i>Diabetes, Obesity and Metabolism</i> , 2018, 20, 2792-2799.	4.4	52
17	Negative association of acetate with visceral adipose tissue and insulin levels. <i>Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy</i> , 2012, 5, 49.	2.4	45
18	Feasibility of Inpatient Continuous Glucose Monitoring During the COVID-19 Pandemic: Early Experience. <i>Diabetes Care</i> , 2020, 43, e137-e138.	8.6	43

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19	Decreased microbial co-occurrence network stability and SCFA receptor level correlates with obesity in African-origin women. <i>Scientific Reports</i> , 2018, 8, 17135.	3.3	42
20	MiMeNet: Exploring microbiome-metabolome relationships using neural networks. <i>PLoS Computational Biology</i> , 2021, 17, e1009021.	3.2	42
21	Hexokinase 1 cellular localization regulates the metabolic fate of glucose. <i>Molecular Cell</i> , 2022, 82, 1261-1277.e9.	9.7	42
22	The obese gut microbiome across the epidemiologic transition. <i>Emerging Themes in Epidemiology</i> , 2016, 13, 2.	2.7	40
23	Hepatic HKDC1 Expression Contributes to Liver Metabolism. <i>Endocrinology</i> , 2019, 160, 313-330.	2.8	40
24	G Protein Coupled Receptors in Embryonic Stem Cells: A Role for Gs-Alpha Signaling. <i>PLoS ONE</i> , 2010, 5, e9105.	2.5	37
25	Protein kinase A induces UCP1 expression in specific adipose depots to increase energy expenditure and improve metabolic health. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 311, R79-R88.	1.8	34
26	Vagal neuron expression of the microbiota-derived metabolite receptor, free fatty acid receptor (FFAR3), is necessary for normal feeding behavior. <i>Molecular Metabolism</i> , 2021, 54, 101350.	6.5	34
27	Loss of Free Fatty Acid Receptor 2 leads to impaired islet mass and beta cell survival. <i>Scientific Reports</i> , 2016, 6, 28159.	3.3	33
28	The Association of Dietary Fiber Intake with Cardiometabolic Risk in Four Countries across the Epidemiologic Transition. <i>Nutrients</i> , 2018, 10, 628.	4.1	33
29	Gut Microbiota: FFAR Reaching Effects on Islets. <i>Endocrinology</i> , 2018, 159, 2495-2505.	2.8	32
30	Gut microbiota, short chain fatty acids, and obesity across the epidemiologic transition: the METS-Microbiome study protocol. <i>BMC Public Health</i> , 2018, 18, 978.	2.9	32
31	Hepatocyte-Specific Loss of PPAR $\beta$ Protects Mice From NASH and Increases the Therapeutic Effects of Rosiglitazone in the Liver. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2021, 11, 1291-1311.	4.5	32
32	The human microbiota is associated with cardiometabolic risk across the epidemiologic transition. <i>PLoS ONE</i> , 2019, 14, e0215262.	2.5	29
33	Cooperation between host immunity and the gut bacteria is essential for helminth-evoked suppression of colitis. <i>Microbiome</i> , 2021, 9, 186.	11.1	28
34	Predictors of Obesity among Gut Microbiota Biomarkers in African American Men with and without Diabetes. <i>Microorganisms</i> , 2019, 7, 320.	3.6	27
35	Increased risk of mycotic infections associated with sodium-glucose co-transporter 2 inhibitors: a prescription sequence symmetry analysis. <i>British Journal of Clinical Pharmacology</i> , 2019, 85, 160-168.	2.4	22
36	Studies on the Tissue Localization of HKDC1, a Putative Novel Fifth Hexokinase, in Humans. <i>Journal of Histochemistry and Cytochemistry</i> , 2018, 66, 385-392.	2.5	21

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37	Sodium-glucose co-transporter 2 inhibitors and the risk of fractures: A propensity score-matched cohort study. <i>Pharmacoepidemiology and Drug Safety</i> , 2019, 28, 1629-1639.	1.9	21
38	Hepatic hexokinase domain containing 1 (HKDC1) improves whole body glucose tolerance and insulin sensitivity in pregnant mice. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2019, 1865, 678-687.	3.8	21
39	More evening preference is positively associated with systemic inflammation in prediabetes and type 2 diabetes patients. <i>Scientific Reports</i> , 2018, 8, 15882.	3.3	20
40	Continuous Glucose Monitoring: A Perspective on Its Past, Present, and Future Applications for Diabetes Management. <i>Clinical Diabetes</i> , 2017, 35, 60-65.	2.2	18
41	Identification of a periodontal pathogen and bihormonal cells in pancreatic islets of humans and a mouse model of periodontitis. <i>Scientific Reports</i> , 2020, 10, 9976.	3.3	18
42	Gut microbial features can predict host phenotype response to protein deficiency. <i>Physiological Reports</i> , 2018, 6, e13932.	1.7	17
43	Discovery of Nonlipogenic ABCA1 Inducing Compounds with Potential in Alzheimer's Disease and Type 2 Diabetes. <i>ACS Pharmacology and Translational Science</i> , 2021, 4, 143-154.	4.9	17
44	Systemic Metabolic Alterations Correlate with Islet-Level Prostaglandin E2 Production and Signaling Mechanisms That Predict $\beta$ -Cell Dysfunction in a Mouse Model of Type 2 Diabetes. <i>Metabolites</i> , 2021, 11, 58.	2.9	16
45	Oxytocin is lower in African American men with diabetes and associates with psycho-social and metabolic health factors. <i>PLoS ONE</i> , 2018, 13, e0190301.	2.5	15
46	Gestational Insulin Resistance Is Mediated by the Gut Microbiome's Indoleamine 2,3-Dioxygenase Axis. <i>Gastroenterology</i> , 2022, 162, 1675-1689.e11.	1.3	14
47	Homology Modeling of Ffa2 Identifies Novel Agonists that Potentiate Insulin Secretion. <i>Journal of Investigative Medicine</i> , 2017, 65, 1116-1124.	1.6	13
48	Free fatty acid receptor 3 differentially contributes to $\beta$ -cell compensation under high-fat diet and streptozotocin stress. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2020, 318, R691-R700.	1.8	13
49	Hexokinase domain-containing protein-1 in metabolic diseases and beyond. <i>Trends in Endocrinology and Metabolism</i> , 2022, 33, 72-84.	7.1	13
50	Surgical Treatment of Obesity in Latinos and African Americans: Future Directions and Recommendations to Reduce Disparities in Bariatric Surgery. <i>Bariatric Surgical Patient Care</i> , 2018, 13, 2-11.	0.5	12
51	Obesity-related metabolite profiles of black women spanning the epidemiologic transition. <i>Metabolomics</i> , 2016, 12, 1.	3.0	11
52	Metabolomic analysis of a selective ABCA1 inducer in obesogenic challenge provides a rationale for therapeutic development. <i>EBioMedicine</i> , 2021, 66, 103287.	6.1	11
53	FFAR from the Gut Microbiome Crowd: SCFA Receptors in T1D Pathology. <i>Metabolites</i> , 2021, 11, 302.	2.9	9
54	PKA Enhances the Acute Insulin Response Leading to the Restoration of Glucose Control. <i>Diabetes</i> , 2015, 64, 1688-1697.	0.6	8

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55	Inhibition of mTOR complexes protects cancer cells from glutamine starvation induced cell death by restoring Akt stability. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 2040-2052.	3.8	8
56	Metabolomic profile associated with obstructive sleep apnoea severity in obese pregnant women with gestational diabetes mellitus: A pilot study. <i>Journal of Sleep Research</i> , 2021, 30, e13327.	3.2	8
57	Primary hyperaldosteronism: challenges in subtype classification. <i>BMC Research Notes</i> , 2012, 5, 602.	1.4	7
58	Extreme Insulin Resistance in Critically Ill Patient With Sepsis. <i>Clinical Diabetes</i> , 2016, 34, 158-160.	2.2	6
59	Oxytocin alterations and neurocognitive domains in patients with hypopituitarism. <i>Pituitary</i> , 2019, 22, 105-112.	2.9	6
60	FFA2 Contribution to Gestational Glucose Tolerance Is Not Disrupted by Antibiotics. <i>PLoS ONE</i> , 2016, 11, e0167837.	2.5	6
61	Î±B-crystallin and HspB2 deficiency is protective from diet-induced glucose intolerance. <i>Genomics Data</i> , 2016, 9, 10-17.	1.3	3
62	Acute Lymphoblastic Leukemia in a Patient with Chronic Cyanoacrylate Exposure. <i>Acta Haematologica</i> , 2007, 118, 242-243.	1.4	2
63	Long-term activation of PKA in Î²-cells provides sustained improvement to glucose control, insulin sensitivity and body weight. <i>Islets</i> , 2016, 8, 125-134.	1.8	2
64	The Role of Hexokinase Domain Containing Protein-1 in Glucose Regulation During Pregnancy. <i>Current Diabetes Reports</i> , 2021, 21, 27.	4.2	2
65	Enterocyte HKDC1 Modulates Intestinal Glucose Absorption in Male Mice Fed a High-fat Diet. <i>Endocrinology</i> , 2022, 163, .	2.8	2
66	Incretin-Based Therapies: Revisiting Their Mode of Action. <i>Endocrinology</i> , 2017, 158, 1560-1563.	2.8	1
67	Utility of silhouette showcards to assess adiposity in three countries across the epidemiological transition. <i>PLOS Global Public Health</i> , 2022, 2, e0000127.	1.6	0