Alexandra E Butler

List of Publications by Year
in descending order

118 papers	8,711 citations	117625 34 h-index	43889 91 g-index
122 all docs	122 docs citations	122 times ranked	9440 citing authors

#	Article	IF	Citations
1	Î²-Cell Deficit and Increased Î²-Cell Apoptosis in Humans With Type 2 Diabetes. Diabetes, 2003, 52, 102-110.	0.6	3,615
2	Î²-Cell Replication Is the Primary Mechanism Subserving the Postnatal Expansion of Î²-Cell Mass in Humans. Diabetes, 2008, 57, 1584-1594.	0.6	616
3	Marked Expansion of Exocrine and Endocrine Pancreas With Incretin Therapy in Humans With Increased Exocrine Pancreas Dysplasia and the Potential for Glucagon-Producing Neuroendocrine Tumors. Diabetes, 2013, 62, 2595-2604.	0.6	381
4	Increased Â-Cell Apoptosis Prevents Adaptive Increase in Â-Cell Mass in Mouse Model of Type 2 Diabetes: Evidence for Role of Islet Amyloid Formation Rather Than Direct Action of Amyloid. Diabetes, 2003, 52, 2304-2314.	0.6	374
5	Diabetes Due to a Progressive Defect in Î²-Cell Mass in Rats Transgenic for Human Islet Amyloid Polypeptide (HIP Rat). Diabetes, 2004, 53, 1509-1516.	0.6	239
6	The effect of fasting or calorie restriction on autophagy induction: A review of the literature. Ageing Research Reviews, 2018, 47, 183-197.	10.9	189
7	Relationship Between Â-Cell Mass and Fasting Blood Glucose Concentration in Humans. Diabetes Care, 2006, 29, 717-718.	8.6	184
8	Monocyteâ€toâ€HDLâ€cholesterol ratio as a prognostic marker in cardiovascular diseases. Journal of Cellular Physiology, 2018, 233, 9237-9246.	4.1	169
9	Therapeutic potential of curcumin in diabetic complications. Pharmacological Research, 2018, 136, 181-193.	7.1	155
10	The protective role of curcumin in myocardial ischemiaâ€“reperfusion injury. Journal of Cellular Physiology, 2019, 234, 214-222.	4.1	125
11	Evidence of curcumin and curcumin analogue effects in skin diseases: A narrative review. Journal of Cellular Physiology, 2019, 234, 1165-1178.	4.1	113
12	The therapeutic and diagnostic role of exosomes in cardiovascular diseases. Trends in Cardiovascular Medicine, 2019, 29, 313-323.	4.9	112
13	Î²-Cell Deficit in Obese Type 2 Diabetes, a Minor Role of Î²-Cell Dedifferentiation and Degranulation. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 523-532.	3.6	107
14	Î²-Cell Dysfunctional ERAD/Ubiquitin/Proteasome System in Type 2 Diabetes Mediated by Islet Amyloid Polypeptideâ€“Induced UCH-L1 Deficiency. Diabetes, 2011, 60, 227-238.	0.6	103
15	Sodiumâ€“glucose cotransporter inhibitors and oxidative stress: An update. Journal of Cellular Physiology, 2019, 234, 3231-3237.	4.1	99
16	Sodiumâ€“glucose cotransporter 2 inhibitors and inflammation in chronic kidney disease: Possible molecular pathways. Journal of Cellular Physiology, 2019, 234, 223-230.	4.1	97
17	Curcumin nanofibers for the purpose of wound healing. Journal of Cellular Physiology, 2019, 234, 5537-5554.	4.1	90
18	Alterations in Beta Cell Identity in Type 1 and Type 2 Diabetes. Current Diabetes Reports, 2019, 19, 83.	4.2	88

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19	Effects of antidiabetic drugs on NLRP3 inflammasome activity, with a focus on diabetic kidneys. Drug Discovery Today, 2019, 24, 256-262.	6.4	87
20	Therapeutic use of curcuminâ€encapsulated and curcuminâ€primed exosomes. Journal of Cellular Physiology, 2019, 234, 8182-8191.	4.1	81
21	The versatile role of curcumin in cancer prevention and treatment: A focus on PI3K/AKT pathway. Journal of Cellular Physiology, 2018, 233, 6530-6537.	4.1	79
22	Antioxidative potential of antidiabetic agents: A possible protective mechanism against vascular complications in diabetic patients. Journal of Cellular Physiology, 2019, 234, 2436-2446.	4.1	71
23	Effect of induced hypoglycemia on inflammation and oxidative stress in type 2 diabetes and control subjects. Scientific Reports, 2020, 10, 4750.	3.3	69
24	Hormetic effects of curcumin: What is the evidence?. Journal of Cellular Physiology, 2019, 234, 10060-10071.	4.1	67
25	IAPP toxicity activates HIF1Î±/PFKFB3 signaling delaying Î²-cell loss at the expense of Î²-cell function. Nature Communications, 2019, 10, 2679.	12.8	55
26	Increased Frequency of Hormone Negative and Polyhormonal Endocrine Cells in Lean Individuals With Type 2 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 3628-3636.	3.6	51
27	Increased Hormone-Negative Endocrine Cells in the Pancreas in Type 1 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 3487-3496.	3.6	50
28	Expression of microRNA in follicular fluid in women with and without PCOS. Scientific Reports, 2019, 9, 16306.	3.3	50
29	MicroRNAs: Novel Molecular Targets and Response Modulators of Statin Therapy. Trends in Pharmacological Sciences, 2018, 39, 967-981.	8.7	48
30	Impact of curcumin on tollâ€like receptors. Journal of Cellular Physiology, 2019, 234, 12471-12482.	4.1	48
31	Curcumin as a therapeutic agent in leukemia. Journal of Cellular Physiology, 2019, 234, 12404-12414.	4.1	45
32	Efficacy of artichoke leaf extract in nonâ€alcoholic fatty liver disease: A pilot doubleâ€blind randomized controlled trial. Phytotherapy Research, 2018, 32, 1382-1387.	5.8	43
33	Antidiabetic potential of saffron and its active constituents. Journal of Cellular Physiology, 2019, 234, 8610-8617.	4.1	41
34	Neuropeptide Y expression marks partially differentiated Î² cells in mice and humans. JCI Insight, 2017, 2, .	5.0	41
35	Curcumin in heart failure: A choice for complementary therapy?. Pharmacological Research, 2018, 131, 112-119.	7.1	40
36	Pathways governing development of stem cellâ€derived pancreatic Î² cells: lessons from embryogenesis. Biological Reviews, 2018, 93, 364-389.	10.4	37

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37	Mechanisms of statinâ€induced newâ€onset diabetes. Journal of Cellular Physiology, 2019, 234, 12551-12561.	4.1	36
38	The effect of statin therapy on endoplasmic reticulum stress. Pharmacological Research, 2018, 137, 150-158.	7.1	35
39	Prognostic tools and candidate drugs based on plasma proteomics of patients with severe COVID-19 complications. Nature Communications, 2022, 13, 946.	12.8	30
40	Protective effects of plantâ€derived natural products on renal complications. Journal of Cellular Physiology, 2019, 234, 12161-12172.	4.1	28
41	Cell cycleâ€"related metabolism and mitochondrial dynamics in a replication-competent pancreatic beta-cell line. Cell Cycle, 2017, 16, 2086-2099.	2.6	27
42	Recovery of high-quality RNA from laser capture microdissected human and rodent pancreas. Journal of Histotechnology, 2016, 39, 59-65.	0.5	26
43	The role of exosomal miRNA in nonalcoholic fatty liver disease. Journal of Cellular Physiology, 2022, 237, 2078-2094.	4.1	25
44	Aerobic exercise can modulate the underlying mechanisms involved in the development of diabetic complications. Journal of Cellular Physiology, 2019, 234, 12508-12515.	4.1	23
45	Pancreatic Nonhormone Expressing Endocrine Cells in Children With Type 1 Diabetes. Journal of the Endocrine Society, 2017, 1, 385-395.	0.2	22
46	Association of vitamin D2 and D3 with type 2 diabetes complications. BMC Endocrine Disorders, 2020, 20, 65.	2.2	22
47	microRNA Expression in Women With and Without Polycystic Ovarian Syndrome Matched for Body Mass Index. Frontiers in Endocrinology, 2020, 11, 206.	3.5	21
48	Renin-Angiotensin System overactivation in polycystic ovary syndrome, a risk for SARS-CoV-2 infection?. Metabolism Open, 2020, 7, 100052.	2.9	20
49	Increased Chromogranin Aâ€"Positive Hormone-Negative Cells in Chronic Pancreatitis. Journal of Clinical Endocrinology and Metabolism, 2018, 103, 2126-2135.	3.6	19
50	Increased Proliferation of the Pancreatic Duct Gland Compartment in Type 1 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2017, 102, jc.2016-3001.	3.6	18
51	Liposomal nanocarriers for statins: A pharmacokinetic and pharmacodynamics appraisal. Journal of Cellular Physiology, 2019, 234, 1219-1229.	4.1	18
52	Association of vitamin D₃ and its metabolites in patients with and without type 2 diabetes and their relationship to diabetes complications. Therapeutic Advances in Chronic Disease, 2020, 11, 204062232092415.	2.5	18
53	Islet amyloidosis in a child with type 1 diabetes. Islets, 2019, 11, 44-49.	1.8	17
54	Vitamin D3 metabolite ratio as an indicator of vitamin D status and its association with diabetes complications. BMC Endocrine Disorders, 2020, 20, 161.	2.2	17

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55	Hypoglycaemia in type <scp>2</scp> diabetes exacerbates amyloidâ€related proteins associated with dementia. Diabetes, Obesity and Metabolism, 2021, 23, 338-349.	4.4	17
56	Metabolic consequences of obesity on the hypercoagulable state of polycystic ovary syndrome. Scientific Reports, 2021, 11, 5320.	3.3	16
57	Alterations in long noncoding RNAs in women with and without polycystic ovarian syndrome. Clinical Endocrinology, 2019, 91, 793-797.	2.4	15
58	Distinguishing between type 1 and type 2 diabetes. BMJ, The, 2020, 370, m2998.	6.0	15
59	Increased MicroRNA Levels in Women With Polycystic Ovarian Syndrome but Without Insulin Resistance: A Pilot Prospective Study. Frontiers in Endocrinology, 2020, 11, 571357.	3.5	14
60	Identification of macrophage activation-related biomarkers in obese type 2 diabetes that may be indicative of enhanced respiratory risk in COVID-19. Scientific Reports, 2021, 11, 6428.	3.3	13
61	Plasma heat shock protein response to euglycemia in type 2 diabetes. BMJ Open Diabetes Research and Care, 2021, 9, e002057.	2.8	12
62	Role of the DNAJ/HSP40 family in the pathogenesis of insulin resistance and type 2 diabetes. Ageing Research Reviews, 2021, 67, 101313.	10.9	12
63	Controversies Around the Measurement of Blood Ketones to Diagnose and Manage Diabetic Ketoacidosis. Diabetes Care, 2022, 45, 267-272.	8.6	12
64	The Impact of Incretin-Based Medications on Lipid Metabolism. Journal of Diabetes Research, 2021, 2021, 1-10.	2.3	12
65	Reponse to Comments on: Butler et al. Marked Expansion of Exocrine and Endocrine Pancreas With Incretin Therapy in Humans With Increased Exocrine Pancreas Dysplasia and the Potential for Glucagon-Producing Neuroendocrine Tumors. Diabetes 2013;62:2595-2604. Diabetes, 2013, 62, e19-e22.	0.6	11
66	Vitamin D Association With Macrophage-Derived Cytokines in Polycystic Ovary Syndrome: An Enhanced Risk of COVID-19 Infection?. Frontiers in Endocrinology, 2021, 12, 638621.	3.5	11
67	Relationship between total vitaminÂD metabolites and complications in patients with typeÂ2 diabetes. Biomedical Reports, 2020, 14, 18.	2.0	11
68	Investigation of the Effect of Curcumin on Protein Targets in NAFLD Using Bioinformatic Analysis. Nutrients, 2022, 14, 1331.	4.1	11
69	Genetics and rheumatoid arthritis susceptibility in Iran. Journal of Cellular Physiology, 2019, 234, 5578-5587.	4.1	10
70	Diagnosing type 2 diabetes using Hemoglobin A1c: a systematic review and meta-analysis of the diagnostic cutpoint based on microvascular complications. Acta Diabetologica, 2021, 58, 279-300.	2.5	10
71	The effect of glucagonâ€like peptideâ€1 receptor agonists on serum uric acid concentration: A systematic review and metaâ€analysis. British Journal of Clinical Pharmacology, 2022, 88, 3627-3637.	2.4	10
72	Î²-Cell Identity in Type 2 Diabetes: Lost or Found?: Figure 1. Diabetes, 2015, 64, 2698-2700.	0.6	9

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73	Pregnancy in human IAPP transgenic mice recapitulates beta cell stress in type 2 diabetes. Diabetologia, 2019, 62, 1000-1010.	6.3	9
74	Metabolic comparison of polycystic ovarian syndrome and control women in Middle Eastern and UK Caucasian populations. Scientific Reports, 2020, 10, 18895.	3.3	9
75	Impact of severe hypoglycemia on the heat shock and related protein response. Scientific Reports, 2021, 11, 17057.	3.3	9
76	An Increase in Chromogranin A-Positive, Hormone-Negative Endocrine Cells in Pancreas in Cystic Fibrosis. Journal of the Endocrine Society, 2018, 2, 1058-1066.	0.2	8
77	The relationship of soluble neuropilin-1 to severe COVID-19 risk factors in polycystic ovary syndrome. Metabolism Open, 2021, 9, 100079.	2.9	8
78	The retinopathyâ€derived HbA1c threshold of 6.5% for type 2 diabetes also captures the risk of diabetic nephropathy in <scp>NHANES</scp>. Diabetes, Obesity and Metabolism, 2021, 23, 2109-2115.	4.4	8
79	Re-addressing the 2013 consensus guidelines for the diagnosis of insulitis in human type 1 diabetes: is change necessary?. Diabetologia, 2017, 60, 753-755.	6.3	7
80	Down Syndrome-Associated Diabetes Is Not Due To a Congenital Deficiency in Î² Cells. Journal of the Endocrine Society, 2017, 1, 39-45.	0.2	7
81	Impact of fibrates on circulating cystatin C levels: a systematic review and meta-analysis of clinical trials. Annals of Medicine, 2018, 50, 485-493.	3.8	7
82	Renin-Angiotensin System Overactivation in Type 2 Diabetes: A Risk for SARS-CoV-2 Infection?. Diabetes Care, 2020, 43, e131-e133.	8.6	7
83	apoA2 correlates to gestational age with decreased apolipoproteins A2, C1, C3 and E in gestational diabetes. BMJ Open Diabetes Research and Care, 2021, 9, e001925.	2.8	7
84	Platelet Protein-Related Abnormalities in Response to Acute Hypoglycemia in Type 2 Diabetes. Frontiers in Endocrinology, 2021, 12, 651009.	3.5	7
85	COVID-19 biomarkers for severity mapped to polycystic ovary syndrome. Journal of Translational Medicine, 2020, 18, 490.	4.4	7
86	Pro-fibrotic M2 macrophage markers may increase the risk for COVID19 in type 2 diabetes with obesity. Metabolism: Clinical and Experimental, 2020, 112, 154374.	3.4	6
87	Glucose excursions in type 2 diabetes modulate amyloid-related proteins associated with dementia. Journal of Translational Medicine, 2021, 19, 131.	4.4	6
88	Angiopoietin-1: an early biomarker of diabetic nephropathy?. Journal of Translational Medicine, 2021, 19, 427.	4.4	6
89	The regulation of efferocytosis signaling pathways and adipose tissue homeostasis in physiological conditions and obesity: Current understanding and treatment options. Obesity Reviews, 2022, 23, .	6.5	6
90	Vitamin D association with coagulation factors in polycystic ovary syndrome is dependent upon body mass index. Journal of Translational Medicine, 2021, 19, 239.	4.4	5

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91	Potential Biomarkers to Predict Acute Ischemic Stroke in Type 2 Diabetes. Frontiers in Molecular Biosciences, 2021, 8, 744459.	3.5	5
92	Diagnostic and Prognostic Protein Biomarkers of Î²-Cell Function in Type 2 Diabetes and Their Modulation with Glucose Normalization. Metabolites, 2022, 12, 196.	2.9	5
93	In the setting of Î²-cell stress, the pancreatic duct gland transcriptome shows characteristics of an activated regenerative response. American Journal of Physiology - Renal Physiology, 2018, 315, G848-G854.	3.4	4
94	Association of Differing Qatari Genotypes with Vitamin D Metabolites. International Journal of Endocrinology, 2020, 2020, 1-6.	1.5	4
95	Amyloid-related protein changes associated with dementia differ according to severity of hypoglycemia. BMJ Open Diabetes Research and Care, 2021, 9, e002211.	2.8	4
96	Vitamin D deficiency effects on cardiovascular parameters in women with polycystic ovary syndrome: A retrospective, cross-sectional study. Journal of Steroid Biochemistry and Molecular Biology, 2021, 211, 105892.	2.5	4
97	Association of microRNAs With Embryo Development and Fertilization in Women Undergoing Subfertility Treatments: A Pilot Study. Frontiers in Reproductive Health, 2021, 3, .	1.9	4
98	Vitamin D association with the renin angiotensin system in polycystic ovary syndrome. Journal of Steroid Biochemistry and Molecular Biology, 2021, 214, 105965.	2.5	4
99	Relationship between total vitamin D metabolites and complications in patients with type 2 diabetes. Biomedical Reports, 2021, 14, 18.	2.0	4
100	Heat Shock-Related Protein Responses and Inflammatory Protein Changes Are Associated with Mild Prolonged Hypoglycemia. Cells, 2021, 10, 3109.	4.1	4
101	Regulatory Effects of Statins on SIRT1 and Other Sirtuins in Cardiovascular Diseases. Life, 2022, 12, 760.	2.4	4
102	Evaluation of immunohistochemical staining for glucagon in human pancreatic tissue. Journal of Histotechnology, 2016, 39, 8-16.	0.5	3
103	Mapping of type 2 diabetes proteins to COVID-19 biomarkers: A proteomic analysis. Metabolism Open, 2021, 9, 100074.	2.9	3
104	Type 2 Diabetes Coagulopathy Proteins May Conflict With Biomarkers Reflective of COVID-19 Severity. Frontiers in Endocrinology, 2021, 12, 658304.	3.5	3
105	Characterization of Non-hormone Expressing Endocrine Cells in Fetal and Infant Human Pancreas. Frontiers in Endocrinology, 2019, 9, 791.	3.5	2
106	A response to â€œIn response to â€˜Sodiumâ€“glucose cotransporter 2 inhibitors and inflammation in chronic kidney disease: Possible molecular pathwaysâ€™â€• Journal of Cellular Physiology, 2019, 234, 9908-9909.	4.1	2
107	Long non-coding RNA expression in non-obese women with polycystic ovary syndrome and weight-matched controls. Reproductive BioMedicine Online, 2020, 41, 579-583.	2.4	2
108	Letter to the Editor: Do biomarkers of COVID-19 severity simply reflect a stress response in type 2 diabetes: Biomarker response to hypoglycemia. Metabolism: Clinical and Experimental, 2021, 114, 154417.	3.4	2

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109	Biomarkers of COVID-19 severity may not serve patients with polycystic ovary syndrome. Journal of Translational Medicine, 2021, 19, 63.	4.4	2
110	Soluble Neuropilin-1 Response to Hypoglycemia in Type 2 Diabetes: Increased Risk or Protection in SARS-CoV-2 Infection?. Frontiers in Endocrinology, 2021, 12, 665134.	3.5	2
111	Hypoglycemia-induced changes in complement pathways in type 2 diabetes. Atherosclerosis Plus, 2021, , .	0.7	2
112	Expression and localization of transient receptor potential channels in the bovine uterus epithelium throughout the estrous cycle. Molecular Biology Reports, 2019, 46, 4077-4084.	2.3	1
113	Qatari Genotype May Contribute to Complications in Type 2 Diabetes. Journal of Diabetes Research, 2020, 2020, 1-6.	2.3	1
114	Severe iatrogenic hypoglycaemia modulates the fibroblast growth factor protein response. Diabetes, Obesity and Metabolism, 2022, 24, 1483-1497.	4.4	1
115	Chromogranin Aâ€positive hormoneâ€negative endocrine cells in pancreas in human pregnancy. Endocrinology, Diabetes and Metabolism, 2021, 4, e00223.	2.4	0
116	Differing endometrial expression of calcium modulating transient receptor potential channels. Journal of Translational Medicine, 2021, 19, 113.	4.4	0
117	Hypoglycemia Impairs the Heat Shock Protein Response: A Risk for Heat Shock in Cattle?. Frontiers in Veterinary Science, 2022, 9, 822310.	2.2	0
118	Cardiovascular protection conferred by glucagonâ€like peptideâ€1 receptor agonists: A role for serum uric acid reduction?. British Journal of Clinical Pharmacology, 2022, 88, 4237-4238.	2.4	0