C Bruce Verchere

List of Publications by Year
in descending order

110 papers	6,625 citations	46918 47 h-index	66788 78 g-index
117 all docs	117 docs citations	117 times ranked	7649 citing authors

#	Article	IF	Citations
1	Heterogeneity of Diabetes: Î²-Cells, Phenotypes, and Precision Medicine: Proceedings of an International Symposium of the Canadian Institutes of Health Researchâ€™s Institute of Nutrition, Metabolism and Diabetes and the U.S. National Institutes of Healthâ€™s National Institute of Diabetes and Digestive and Kidney Diseases. Diabetes, 2022, 71, 1-22.	0.3	8
2	Heterogeneity of Diabetes: Î²-Cells, Phenotypes, and Precision Medicine: Proceedings of an International Symposium of the Canadian Institutes of Health Researchâ€™s Institute of Nutrition, Metabolism and Diabetes and the U.S. National Institutes of Healthâ€™s National Institute of Diabetes and Digestive and Kidney Diseases. Diabetes Care, 2022, 45, 3-22.	4.3	14
3	Insulin null ÃŸ-cells have a prohormone processing defect that is not reversed by AAV rescue of proinsulin expression. Endocrinology, 2022, , .	1.4	1
4	Elevated islet prohormone ratios as indicators of insulin dependency in auto-islet transplant recipients. American Journal of Transplantation, 2022, 22, 1992-2005.	2.6	3
5	T cells accumulate in non-diabetic islets during ageing. Immunity and Ageing, 2021, 18, 8.	1.8	10
6	Mice lacking PC1/3 expression in POMC-expressing cells do not develop obesity. Endocrinology, 2021, , .	1.4	5
7	Altered Î²-Cell Prohormone Processing and Secretion in Type 1 Diabetes. Diabetes, 2021, 70, 1038-1050.	0.3	28
8	The Î² Cell in Diabetes: Integrating Biomarkers With Functional Measures. Endocrine Reviews, 2021, 42, 528-583.	8.9	21
9	Interactions between islets and regulatory immune cells in health and type 1 diabetes. Diabetologia, 2021, 64, 2378-2388.	2.9	5
10	Heterogeneity of Diabetes: Î²-Cells, Phenotypes, and Precision Medicine: Proceedings of an International Symposium of the Canadian Institutes of Health Researchâ€™s Institute of Nutrition, Metabolism and Diabetes and the U.S. National Institutes of Healthâ€™s National Institute of Diabetes and Digestive and Kidney Diseases. Canadian Journal of Diabetes, 2021, 45, 697-713.	0.4	2
11	Islet Macrophages Shift to a Reparative State following Pancreatic Beta-Cell Death and Are a Major Source of Islet Insulin-like Growth Factor-1. IScience, 2020, 23, 100775.	1.9	37
12	Gut Microbiota as a Trigger for Metabolic Inflammation in Obesity and Type 2 Diabetes. Frontiers in Immunology, 2020, 11, 571731.	2.2	281
13	PAM haploinsufficiency does not accelerate the development of diet- and human IAPP-induced diabetes in mice. Diabetologia, 2020, 63, 561-576.	2.9	12
14	Modulation of Innate Immunity by Amyloidogenic Peptides. Trends in Immunology, 2019, 40, 762-780.	2.9	6
15	AAV GCG-EGFP, a new tool to identify glucagon-secreting Î±-cells. Scientific Reports, 2019, 9, 10829.	1.6	6
16	A Call for Improved Reporting of Human Islet Characteristics in Research Articles. Diabetes, 2019, 68, 239-240.	0.3	21
17	Probing the Meaning of Persistent Propeptide Release in Type 1 Diabetes. Diabetes Care, 2019, 42, 183-185.	4.3	5
18	Pancreatic 18F-FDG uptake is increased in type 2 diabetes patients compared to non-diabetic controls. PLoS ONE, 2019, 14, e0213202.	1.1	6

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19	IAPP and type 1 diabetes: implications for immunity, metabolism and islet transplants. Journal of Molecular Endocrinology, 2018, 60, R57-R75.	1.1	37
20	Neuronal PAS Domain Protein 4 Suppression of Oxygen Sensing Optimizes Metabolism during Excitation of Neuroendocrine Cells. Cell Reports, 2018, 22, 163-174.	2.9	19
21	When beta cells talk back. Diabetologia, 2018, 61, 39-42.	2.9	4
22	Islet prohormone processing in health and disease. Diabetes, Obesity and Metabolism, 2018, 20, 64-76.	2.2	62
23	Maternal folic acid supplementation with vitamin B ₁₂ deficiency during pregnancy and lactation affects the metabolic health of adult female offspring but is dependent on offspring diet. FASEB Journal, 2018, 32, 5039-5050.	0.2	29
24	Prevention of autoimmune diabetes and islet allograft rejection by beta cell expression of XIAP: Insight into possible mechanisms of local immunomodulation. Molecular and Cellular Endocrinology, 2018, 477, 48-56.	1.6	4
25	Peptide Therapeutics for Weight Loss: Preventing Plasma Pancreatic Polypeptide Proteolysis. Endocrinology, 2017, 158, 1567-1568.	1.4	4
26	Improving glycaemic control in type 2 diabetes: <scp>S</scp>timulate insulin secretion or provide betaâ€cell rest?. Diabetes, Obesity and Metabolism, 2017, 19, 1205-1213.	2.2	54
27	Loss of prohormone convertase 2 promotes beta cell dysfunction in a rodent transplant model expressing human pro-islet amyloid polypeptide. Diabetologia, 2017, 60, 453-463.	2.9	16
28	Measurement of Pro-Islet Amyloid Polypeptide (1â€“48) in Diabetes and Islet Transplants. Journal of Clinical Endocrinology and Metabolism, 2017, 102, 2595-2603.	1.8	34
29	Reawakening the Duct Cell Progenitor?. Endocrinology, 2016, 157, 52-53.	1.4	0
30	Time-resolved studies define the nature of toxic IAPP intermediates, providing insight for anti-amyloidosis therapeutics. ELife, 2016, 5, .	2.8	126
31	Glucagon-Like Peptide-1 Receptor Agonists: Beta-Cell Protection or Exhaustion?. Trends in Endocrinology and Metabolism, 2016, 27, 442-445.	3.1	12
32	ABCA1 deficiency and cellular cholesterol accumulation increases islet amyloidogenesis in mice. Diabetologia, 2016, 59, 1242-1246.	2.9	24
33	Differential Activation of Innate Immune Pathways by Distinct Islet Amyloid Polypeptide (IAPP) Aggregates. Journal of Biological Chemistry, 2016, 291, 8908-8917.	1.6	40
34	T regulatory cell chemokine production mediates pathogenic T cell attraction and suppression. Journal of Clinical Investigation, 2016, 126, 1039-1051.	3.9	71
35	CCL22 Prevents Rejection of Mouse Islet Allografts and Induces Donor-Specific Tolerance. Cell Transplantation, 2015, 24, 2143-2154.	1.2	28
36	Cellular Mechanisms of CCL22-Mediated Attenuation of Autoimmune Diabetes. Journal of Immunology, 2015, 194, 3054-3064.	0.4	28

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37	Loss of Cyp8b1 Improves Glucose Homeostasis by Increasing GLP-1. Diabetes, 2015, 64, 1168-1179.	0.3	89
38	IL-1 mediates amyloid-associated islet dysfunction and inflammation in human islet amyloid polypeptide transgenic mice. Diabetologia, 2015, 58, 575-585.	2.9	56
39	Amyloid Formation in Human Islets Is Enhanced by Heparin and Inhibited by Heparinase. American Journal of Transplantation, 2015, 15, 1519-1530.	2.6	24
40	IL-33 Reverses an Obesity-Induced Deficit in Visceral Adipose Tissue ST2+ T Regulatory Cells and Ameliorates Adipose Tissue Inflammation and Insulin Resistance. Journal of Immunology, 2015, 194, 4777-4783.	0.4	146
41	Resident Macrophages Mediate Islet Amyloid Polypeptideâ€"Induced Islet IL-1Î² Production and Î²-Cell Dysfunction. Diabetes, 2014, 63, 1698-1711.	0.3	192
42	Thioredoxin-interacting Protein Promotes Islet Amyloid Polypeptide Expression through miR-124a and FoxA2. Journal of Biological Chemistry, 2014, 289, 11807-11815.	1.6	55
43	Death and Dysfunction of Transplanted Î²-Cells: Lessons Learned From Type 2 Diabetes?. Diabetes, 2014, 63, 12-19.	0.3	47
44	Islet Remodeling in Female Mice with Spontaneous Autoimmune and Streptozotocin-Induced Diabetes. PLoS ONE, 2014, 9, e102843.	1.1	29
45	Activating the NLRP3 Inflammasome Using the Amyloidogenic Peptide IAPP. Methods in Molecular Biology, 2013, 1040, 9-18.	0.4	18
46	Endogenous Expression of B7-H4 Improves Long-term Murine Islet Allograft Survival. Transplantation, 2013, 95, 94-99.	0.5	11
47	Blockade of both B7-H4 and CTLA-4 co-signaling pathways enhances mouse islet allograft survival. Islets, 2012, 4, 284-295.	0.9	4
48	Translational Control of Glucose-Induced Islet Amyloid Polypeptide Production in Pancreatic Islets. Endocrinology, 2012, 153, 2082-2087.	1.4	22
49	miR-33a Modulates ABCA1 Expression, Cholesterol Accumulation, and Insulin Secretion in Pancreatic Islets. Diabetes, 2012, 61, 653-658.	0.3	122
50	B7-H4 Induces Donor-Specific Tolerance in Mouse Islet Allografts. Cell Transplantation, 2012, 21, 99-111.	1.2	17
51	Metabolic stress, <scp>IAPP</scp> and islet amyloid. Diabetes, Obesity and Metabolism, 2012, 14, 68-77.	2.2	82
52	TRAIL-engineered pancreas-derived mesenchymal stem cells: characterization and cytotoxic effects on pancreatic cancer cells. Cancer Gene Therapy, 2012, 19, 652-658.	2.2	65
53	B7-H4 Treatment of T Cells Inhibits ERK, JNK, p38, and AKT Activation. PLoS ONE, 2012, 7, e28232.	1.1	40
54	Loss of Both ABCA1 and ABCG1 Results in Increased Disturbances in Islet Sterol Homeostasis, Inflammation, and Impaired Î²-Cell Function. Diabetes, 2012, 61, 659-664.	0.3	107

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55	2011 Canadian Diabetes Association, Young Scientist Award Winner, Minna Woo MD PhD. Canadian Journal of Diabetes, 2011, 35, 488-489.	0.4	0
56	Islet Cholesterol Accumulation Due to Loss of ABCA1 Leads to Impaired Exocytosis of Insulin Granules. Diabetes, 2011, 60, 3186-3196.	0.3	97
57	Improving Islet Engraftment by Gene Therapy. Journal of Transplantation, 2011, 2011, 1-7.	0.3	15
58	Advances and Challenges in Islet Transplantation: Islet Procurement Rates and Lessons Learned from Suboptimal Islet Transplantation. Journal of Transplantation, 2011, 2011, 1-6.	0.3	34
59	B7-H4 Pathway in Islet Transplantation andÎ²-Cell Replacement Therapies. Journal of Transplantation, 2011, 2011, 1-8.	0.3	8
60	IL-1 Blockade Attenuates Islet Amyloid Polypeptide-Induced Proinflammatory Cytokine Release and Pancreatic Islet Graft Dysfunction. Journal of Immunology, 2011, 187, 2755-2765.	0.4	175
61	Early Treatment of NOD Mice With B7-H4 Reduces the Incidence of Autoimmune Diabetes. Diabetes, 2011, 60, 3246-3255.	0.3	43
62	Kinetics and genomic profiling of adult human and mouse Î²-cell maturation. Islets, 2011, 3, 175-187.	0.9	34
63	Altered Glutathione Homeostasis in Heart Augments Cardiac Lipotoxicity Associated with Diet-induced Obesity in Mice. Journal of Biological Chemistry, 2011, 286, 42483-42493.	1.6	32
64	Prevention of murine autoimmune diabetes by CCL22-mediated Treg recruitment to the pancreatic islets. Journal of Clinical Investigation, 2011, 121, 3024-3028.	3.9	90
65	HDL and LDL cholesterol significantly influence Î²-cell function in type 2 diabetes mellitus. Current Opinion in Lipidology, 2010, 21, 178-185.	1.2	120
66	Selecting exercise regimens and strains to modify obesity and diabetes in rodents: an overview. Clinical Science, 2010, 119, 57-74.	1.8	29
67	Toxic oligomers and islet beta cell death: guilty by association or convicted by circumstantial evidence?. Diabetologia, 2010, 53, 1046-1056.	2.9	160
68	Cholesterol efflux via ATP-binding cassette transporter A1 (ABCA1) and cholesterol uptake via the LDL receptor influences cholesterol-induced impairment of beta cell function in mice. Diabetologia, 2010, 53, 1110-1119.	2.9	108
69	Cholesterol in Î²-cell Dysfunction: The Emerging Connection Between HDL Cholesterol and Type 2 Diabetes. Current Diabetes Reports, 2010, 10, 55-60.	1.7	54
70	Carriers of Loss-of-Function Mutations in ABCA1 Display Pancreatic Â-Cell Dysfunction. Diabetes Care, 2010, 33, 869-874.	4.3	114
71	Role of the TLR signaling molecule TRIF inÂÎ²-cell function and glucose homeostasis. Islets, 2010, 2, 104-111.	0.9	28
72	XIAP inhibition of Î²-cell apoptosis reduces the number of islets required to restore euglycemia in a syngeneic islet transplantation model. Islets, 2010, 2, 18-23.	0.9	22

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73	Locus co-occupancy, nucleosome positioning, and H3K4me1 regulate the functionality of FOXA2-, HNF4A-, and PDX1-bound loci in islets and liver. Genome Research, 2010, 20, 1037-1051.	2.4	109
74	The Sulfated Triphenyl Methane Derivative Acid Fuchsin Is a Potent Inhibitor of Amyloid Formation by Human Islet Amyloid Polypeptide and Protects against the Toxic Effects of Amyloid Formation. Journal of Molecular Biology, 2010, 400, 555-566.	2.0	46
75	The Flavanol (â˜)-Epigallocatechin 3-Gallate Inhibits Amyloid Formation by Islet Amyloid Polypeptide, Disaggregates Amyloid Fibrils, and Protects Cultured Cells against IAPP-Induced Toxicity. Biochemistry, 2010, 49, 8127-8133.	1.2	241
76	Differentiation of Mouse Embryonic Stem Cells into Endoderm without Embryoid Body Formation. PLoS ONE, 2010, 5, e14146.	1.1	22
77	Amyloid inhibitors enhance survival of cultured human islets. Biochimica Et Biophysica Acta - General Subjects, 2009, 1790, 566-574.	1.1	71
78	Local Expression of B7-H4 by Recombinant Adenovirus Transduction in Mouse Islets Prolongs Allograft Survival. Transplantation, 2009, 87, 482-490.	0.5	35
79	Different Effects of FK506, Rapamycin, and Mycophenolate Mofetil on Glucose-Stimulated Insulin Release and Apoptosis in Human Islets. Cell Transplantation, 2009, 18, 833-845.	1.2	144
80	Islet Allograft Rejection Is Independent of Toll-Like Receptor Signaling in Mice. Transplantation, 2009, 88, 1075-1080.	0.5	22
81	Rifampicin Does Not Prevent Amyloid Fibril Formation by Human Islet Amyloid Polypeptide but Does Inhibit Fibril Thioflavin-T Interactions: Implications for Mechanistic Studies of Î²-Cell Death. Biochemistry, 2008, 47, 6016-6024.	1.2	84
82	Small Interfering RNA-Mediated Suppression of Proislet Amyloid Polypeptide Expression Inhibits Islet Amyloid Formation and Enhances Survival of Human Islets in Culture. Diabetes, 2008, 57, 3045-3055.	0.3	48
83	A Multi-Year Analysis of Islet Transplantation Compared With Intensive Medical Therapy on Progression of Complications in Type 1 Diabetes. Transplantation, 2008, 86, 1762-1766.	0.5	138
84	Cholesterol in islet dysfunction and type 2 diabetes. Journal of Clinical Investigation, 2008, 118, 403-408.	3.9	125
85	Î²-cell ABCA1 influences insulin secretion, glucose homeostasis and response to thiazolidinedione treatment. Nature Medicine, 2007, 13, 340-347.	15.2	366
86	Adult stem or progenitor cells in treatment for type 1 diabetes: current progress. Canadian Journal of Surgery, 2007, 50, 137-42.	0.5	14
87	Impaired NH2-Terminal Processing of Human Proislet Amyloid Polypeptide by the Prohormone Convertase PC2 Leads to Amyloid Formation and Cell Death. Diabetes, 2006, 55, 2192-2201.	0.3	95
88	Application of in situ ductal perfusion to facilitate isolation of high-quality RNA from mouse pancreas. BioTechniques, 2006, 40, 617-621.	0.8	25
89	Identification of Novel HLA-A*0201-Restricted Epitopes in Recent-Onset Type 1 Diabetic Subjects and Antibody-Positive Relatives. Diabetes, 2006, 55, 3061-3067.	0.3	83
90	Improving function and survival of pancreatic islets by endogenous production of glucagon-like peptide 1 (GLP-1). Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13468-13473.	3.3	92

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91	Recognition of HLA Class I-Restricted Â-Cell Epitopes in Type 1 Diabetes. Diabetes, 2006, 55, 3068-3074.	0.3	95
92	Improved Human Pancreatic Islet Isolation for a Prospective Cohort Study of Islet Transplantation vs Best Medical Therapy in Type 1 Diabetes Mellitus. Archives of Surgery, 2005, 140, 735.	2.3	71
93	The X-Linked Inhibitor of Apoptosis Protein Enhances Survival of Murine Islet Allografts. Diabetes, 2005, 54, 2533-2540.	0.3	60
94	Processing of Pro-Islet Amyloid Polypeptide in the Constitutive and Regulated Secretory Pathways of Î² Cells. Molecular Endocrinology, 2005, 19, 2154-2163.	3.7	66
95	Role of Carboxypeptidase E in Processing of Pro-Islet Amyloid Polypeptide in Î²-Cells. Endocrinology, 2005, 146, 1808-1817.	1.4	60
96	Synergistic inhibition of tumor necrosis factor-related apoptosis-inducing ligand-induced apoptosis in human pancreatic Î² cells by Bcl-2 and X-linked inhibitor of apoptosis. Human Immunology, 2005, 66, 274-284.	1.2	25
97	Role of Â-Cell Prohormone Convertase (PC)1/3 in Processing of Pro-Islet Amyloid Polypeptide. Diabetes, 2004, 53, 141-148.	0.3	114
98	Progression of spontaneous autoimmune diabetes is associated with a switch in the killing mechanism used by autoreactive CTL. International Immunology, 2004, 16, 1657-1662.	1.8	17
99	The effect of apolipoprotein E deficiency on islet amyloid deposition in human islet amyloid polypeptide transgenic mice. Diabetologia, 2003, 46, 71-79.	2.9	31
100	Islet amyloid polypeptide and type 2 diabetes. Experimental Gerontology, 2003, 38, 347-351.	1.2	171
101	Proteoglycans synthesized and secreted by pancreatic islet Î²-cells bind amylin. Archives of Biochemistry and Biophysics, 2003, 413, 182-190.	1.4	38
102	Identification of a Â-Cell-Specific HLA Class I Restricted Epitope in Type 1 Diabetes. Diabetes, 2003, 52, 2647-2651.	0.3	81
103	Increased Dietary Fat Promotes Islet Amyloid Formation and Â-Cell Secretory Dysfunction in a Transgenic Mouse Model of Islet Amyloid. Diabetes, 2003, 52, 372-379.	0.3	105
104	Prediction of spontaneous autoimmune diabetes in NOD mice by quantification of autoreactive T cells in peripheral blood. Journal of Clinical Investigation, 2003, 111, 217-223.	3.9	201
105	Prediction of spontaneous autoimmune diabetes in NOD mice by quantification of autoreactive T cells in peripheral blood. Journal of Clinical Investigation, 2003, 111, 217-223.	3.9	108
106	Identification of a Heparin Binding Domain in the N-terminal Cleavage Site of Pro-islet Amyloid Polypeptide. Journal of Biological Chemistry, 2001, 276, 16611-16616.	1.6	93
107	Human aging is associated with parallel reductions in insulin and amylin release. American Journal of Physiology - Endocrinology and Metabolism, 1998, 275, E785-E791.	1.8	30
108	Proinsulin Targeting to the Regulated Pathway Is Not Impaired in Carboxypeptidase E-deficientCpe /Cpe Mice. Journal of Biological Chemistry, 1997, 272, 27532-27534.	1.6	96

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109	Des-(27-31)C-Peptide. Journal of Biological Chemistry, 1996, 271, 27475-27481.	1.6	25
110	Canine galanin: sequence, expression and pancreatic effects. Regulatory Peptides, 1994, 50, 1-11.	1.9	23