AndrÃ© C Carpentier

List of Publications by Year
in descending order

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111 papers	7,584 citations	94433 37 h-index	54911 84 g-index
112 all docs	112 docs citations	112 times ranked	8161 citing authors

#	Article	IF	Citations
1	Disordered Fat Storage and Mobilization in the Pathogenesis of Insulin Resistance and Type 2 Diabetes. Endocrine Reviews, 2002, 23, 201-229.	20.1	1,046
2	Brown adipose tissue oxidative metabolism contributes to energy expenditure during acute cold exposure in humans. Journal of Clinical Investigation, 2012, 122, 545-552.	8.2	815
3	Outdoor Temperature, Age, Sex, Body Mass Index, and Diabetic Status Determine the Prevalence, Mass, and Glucose-Uptake Activity of 18F-FDG-Detected BAT in Humans. Journal of Clinical Endocrinology and Metabolism, 2011, 96, 192-199.	3.6	473
4	Mechanisms of Hepatic Very Low Density Lipoprotein Overproduction in Insulin Resistance. Journal of Biological Chemistry, 2000, 275, 8416-8425.	3.4	278
5	Increased Brown Adipose Tissue Oxidative Capacity in Cold-Acclimated Humans. Journal of Clinical Endocrinology and Metabolism, 2014, 99, E438-E446.	3.6	251
6	Brown Adipose Tissue Energy Metabolism in Humans. Frontiers in Endocrinology, 2018, 9, 447.	3.5	223
7	Mechanisms of the free fatty acid-induced increase in hepatic glucose production. American Journal of Physiology - Endocrinology and Metabolism, 2003, 284, E863-E873.	3.5	208
8	Contributions of white and brown adipose tissues and skeletal muscles to acute coldâ€induced metabolic responses in healthy men. Journal of Physiology, 2015, 593, 701-714.	2.9	195
9	Human Brown Adipocyte Thermogenesis Is Driven by Î²2-AR Stimulation. Cell Metabolism, 2020, 32, 287-300.e7.	16.2	185
10	In vivo measurement of energy substrate contribution to coldâ€induced brown adipose tissue thermogenesis. FASEB Journal, 2015, 29, 2046-2058.	0.5	183
11	Lipid-induced pancreatic Î²-cell dysfunction: focus on in vivo studies. American Journal of Physiology - Endocrinology and Metabolism, 2011, 300, E255-E262.	3.5	178
12	Selective Impairment of Glucose but Not Fatty Acid or Oxidative Metabolism in Brown Adipose Tissue of Subjects With Type 2 Diabetes. Diabetes, 2015, 64, 2388-2397.	0.6	178
13	Inhibition of Intracellular Triglyceride Lipolysis Suppresses Cold-Induced Brown Adipose Tissue Metabolism and Increases Shivering in Humans. Cell Metabolism, 2017, 25, 438-447.	16.2	157
14	Hepatitis Câ€“related cirrhosis: A predictor of diabetes after liver transplantation. Hepatology, 2000, 32, 87-90.	7.3	149
15	Effect of Alipogene Tiparvovec (AAV1-LPL^{S447X}) on Postprandial Chylomicron Metabolism in Lipoprotein Lipase-Deficient Patients. Journal of Clinical Endocrinology and Metabolism, 2012, 97, 1635-1644.	3.6	146
16	Acute enhancement of insulin secretion by FFA in humans is lost with prolonged FFA elevation. American Journal of Physiology - Endocrinology and Metabolism, 1999, 276, E1055-E1066.	3.5	131
17	Dietary fatty acid metabolism of brown adipose tissue in cold-acclimated men. Nature Communications, 2017, 8, 14146.	12.8	119
18	Effects of Combined Calcium and Vitamin D Supplementation on Insulin Secretion, Insulin Sensitivity and Î²-Cell Function in Multi-Ethnic Vitamin D-Deficient Adults at Risk for Type 2 Diabetes: A Pilot Randomized, Placebo-Controlled Trial. PLoS ONE, 2014, 9, e109607.	2.5	115

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19	Increased Myocardial Uptake of Dietary Fatty Acids Linked to Cardiac Dysfunction in Glucose-Intolerant Humans. Diabetes, 2012, 61, 2701-2710.	0.6	95
20	Fourâ€week cold acclimation in adult humans shifts uncoupling thermogenesis from skeletal muscles to brown adipose tissue. Journal of Physiology, 2017, 595, 2099-2113.	2.9	95
21	Ameliorated Hepatic Insulin Resistance Is Associated with Normalization of Microsomal Triglyceride Transfer Protein Expression and Reduction in Very Low Density Lipoprotein Assembly and Secretion in the Fructose-fed Hamster. Journal of Biological Chemistry, 2002, 277, 28795-28802.	3.4	89
22	Image-derived input function in dynamic human PET/CT: methodology and validation with 11C-acetate and 18F-fluorothioheptadecanoic acid in muscle and 18F-fluorodeoxyglucose in brain. European Journal of Nuclear Medicine and Molecular Imaging, 2010, 37, 1539-1550.	6.4	86
23	Abnormal in vivo myocardial energy substrate uptake in diet-induced type 2 diabetic cardiomyopathy in rats. American Journal of Physiology - Endocrinology and Metabolism, 2010, 298, E1049-E1057.	3.5	82
24	Organ-specific dietary fatty acid uptake in humans using positron emission tomography coupled to computed tomography. American Journal of Physiology - Endocrinology and Metabolism, 2011, 300, E445-E453.	3.5	78
25	Limited Recovery of Î²-Cell Function After Gastric Bypass Despite Clinical Diabetes Remission. Diabetes, 2014, 63, 1214-1223.	0.6	76
26	Postprandial fatty acid metabolism in the development of lipotoxicity and type 2 diabetes. Diabetes and Metabolism, 2008, 34, 97-107.	2.9	72
27	The Effect of Systemic Versus Portal Insulin Delivery in Pancreas Transplantation on Insulin Action and VLDL Metabolism. Diabetes, 2001, 50, 1402-1413.	0.6	71
28	Recent advances in the detection of brown adipose tissue in adult humans: a review. Clinical Science, 2018, 132, 1039-1054.	4.3	63
29	Direct and indirect control of hepatic glucose production by insulin. Cell Metabolism, 2021, 33, 709-720.	16.2	61
30	On the suppression of plasma nonesterified fatty acids by insulin during enhanced intravascular lipolysis in humans. American Journal of Physiology - Endocrinology and Metabolism, 2005, 289, E849-E856.	3.5	60
31	Angiotensin II type 2 receptor promotes adipocyte differentiation and restores adipocyte size in high-fat/high-fructose diet-induced insulin resistance in rats. American Journal of Physiology - Endocrinology and Metabolism, 2013, 304, E197-E210.	3.5	50
32	Mechanism of highly active anti-retroviral therapy-induced hyperlipidemia in HIV-infected individuals. Atherosclerosis, 2005, 178, 165-172.	0.8	49
33	Abnormal Myocardial Dietary Fatty Acid Metabolism and Diabetic Cardiomyopathy. Canadian Journal of Cardiology, 2018, 34, 605-614.	1.7	49
34	Brown Adipose Tissueâ€”A Translational Perspective. Endocrine Reviews, 2023, 44, 143-192.	20.1	49
35	Biliopancreatic diversion with duodenal switch improves insulin sensitivity and secretion through caloric restriction. Obesity, 2014, 22, 1838-1846.	3.0	48
36	Fat Cell Size: Measurement Methods, Pathophysiological Origins, and Relationships With Metabolic Dysregulations. Endocrine Reviews, 2022, 43, 35-60.	20.1	48

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37	EP 80317, a selective CD36 ligand, shows cardioprotective effects against post-ischaemic myocardial damage in mice. Cardiovascular Research, 2012, 96, 99-108.	3.8	46
38	Metabolism of Exogenous D-Beta-Hydroxybutyrate, an Energy Substrate Avidly Consumed by the Heart and Kidney. Frontiers in Nutrition, 2020, 7, 13.	3.7	44
39	The Effect of Insulin on the Intracellular Distribution of 14(R,S)-[18F]Fluoro-6-thia-heptadecanoic Acid in Rats. Molecular Imaging and Biology, 2006, 8, 237-244.	2.6	43
40	Sensitivity to Acute Insulin-Mediated Suppression of Plasma Free Fatty Acids Is Not a Determinant of Fasting VLDL Triglyceride Secretion in Healthy Humans. Diabetes, 2002, 51, 1867-1875.	0.6	40
41	Acute in vivo elevation of intravascular triacylglycerol lipolysis impairs peripheral T cell activation in humans. American Journal of Clinical Nutrition, 2005, 82, 949-956.	4.7	38
42	Normal Postprandial Nonesterified Fatty Acid Uptake in Muscles Despite Increased Circulating Fatty Acids in Type 2 Diabetes. Diabetes, 2011, 60, 408-415.	0.6	38
43	Increased Postprandial Nonesterified Fatty Acid Appearance and Oxidation in Type 2 Diabetes Is Not Fully Established in Offspring of Diabetic Subjects. PLoS ONE, 2010, 5, e10956.	2.5	37
44	Management of Obesity in CardiovascularÂPractice. Journal of the American College of Cardiology, 2021, 78, 513-531.	2.8	36
45	Deficiency of Interleukin-15 Confers Resistance to Obesity by Diminishing Inflammation and Enhancing the Thermogenic Function of Adipose Tissues. PLoS ONE, 2016, 11, e0162995.	2.5	36
46	100th anniversary of the discovery of insulin perspective: insulin and adipose tissue fatty acid metabolism. American Journal of Physiology - Endocrinology and Metabolism, 2021, 320, E653-E670.	3.5	35
47	Lower brown adipose tissue activity is associated with non-alcoholic fatty liver disease but not changes in the gut microbiota. Cell Reports Medicine, 2021, 2, 100397.	6.5	35
48	Free Fatty Acid-Mediated Impairment of Glucose-Stimulated Insulin Secretion in Nondiabetic Oji-Cree Individuals From the Sandy Lake Community of Ontario, Canada: A Population at Very High Risk for Developing Type 2 Diabetes. Diabetes, 2003, 52, 1485-1495.	0.6	32
49	Plasma Nonesterified Fatty Acid Intolerance and Hyperglycemia Are Associated with Intravenous Lipid-Induced Impairment of Insulin Sensitivity and Disposition Index. Journal of Clinical Endocrinology and Metabolism, 2010, 95, 1256-1264.	3.6	32
50	Update on adipose tissue blood flow regulation. American Journal of Physiology - Endocrinology and Metabolism, 2012, 302, E1157-E1170.	3.5	32
51	MK2 Deletion in Mice Prevents Diabetes-Induced Perturbations in Lipid Metabolism and Cardiac Dysfunction. Diabetes, 2016, 65, 381-392.	0.6	29
52	Specific loss of adipocyte CD248 improves metabolic health via reduced white adipose tissue hypoxia, fibrosis and inflammation. EBioMedicine, 2019, 44, 489-501.	6.1	29
53	Modulation of T-cell signalling by non-esterified fatty acids. Prostaglandins Leukotrienes and Essential Fatty Acids, 2007, 77, 337-343.	2.2	26
54	Plasma Palmitoyl-Carnitine (AC16:0) Is a Marker of Increased Postprandial Nonesterified Incomplete Fatty Acid Oxidation Rate in Adults With Type 2 Diabetes. Canadian Journal of Diabetes, 2018, 42, 382-388.e1.	0.8	25

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55	MRI Reveals Human Brown Adipose Tissue Is Rapidly Activated in Response to Cold. Journal of the Endocrine Society, 2019, 3, 2374-2384.	0.2	25
56	Measurement of bioactive osteocalcin in humans using a novel immunoassay reveals association with glucose metabolism and Î²-cell function. American Journal of Physiology - Endocrinology and Metabolism, 2020, 318, E381-E391.	3.5	25
57	Mechanism of insulin-stimulated clearance of plasma nonesterified fatty acids in humans. American Journal of Physiology - Endocrinology and Metabolism, 2007, 292, E693-E701.	3.5	24
58	Improved cardiac function and dietary fatty acid metabolism after modest weight loss in subjects with impaired glucose tolerance. American Journal of Physiology - Endocrinology and Metabolism, 2014, 306, E1388-E1396.	3.5	24
59	Fatty Acid Metabolic Remodeling During Type 2 Diabetes Remission After Bariatric Surgery. Diabetes, 2017, 66, 2743-2755.	0.6	24
60	[11C]-Acetoacetate PET imaging: a potential early marker for cardiac heart failure. Nuclear Medicine and Biology, 2014, 41, 863-870.	0.6	22
61	Effect of Sex and Impaired Glucose Tolerance on Organ-Specific Dietary Fatty Acid Metabolism in Humans. Diabetes, 2015, 64, 2432-2441.	0.6	22
62	In vivo effects of polyunsaturated, monounsaturated, and saturated fatty acids on hepatic and peripheral insulin sensitivity. Metabolism: Clinical and Experimental, 2015, 64, 315-322.	3.4	22
63	Early Metabolic Improvement After Bariatric Surgery: The First Steps Toward Remission of Type 2 Diabetes. Canadian Journal of Diabetes, 2017, 41, 418-425.	0.8	22
64	Bariatric Surgery Rapidly Decreases Cardiac Dietary Fatty Acid Partitioning and Hepatic Insulin Resistance Through Increased Intra-abdominal Adipose Tissue Storage and Reduced Spillover in Type 2 Diabetes. Diabetes, 2020, 69, 567-577.	0.6	21
65	Mechanism of Reduced Myocardial Glucose Utilization During Acute Hypertriglyceridemia in Rats. Molecular Imaging and Biology, 2009, 11, 6-14.	2.6	20
66	Therapeutic potential of antisense oligonucleotides for the management of dyslipidemia. Clinical Lipidology, 2011, 6, 703-716.	0.4	20
67	A critical appraisal of brown adipose tissue metabolism in humans. Clinical Lipidology, 2015, 10, 259-280.	0.4	20
68	Adipose ABHD6 regulates tolerance to cold and thermogenic programs. JCI Insight, 2020, 5, .	5.0	20
69	Determination of a pharmacokinetic model for [11C]-acetate in brown adipose tissue. EJNMMI Research, 2019, 9, 31.	2.5	18
70	IGFBP-2 partly mediates the early metabolic improvements caused by bariatric surgery. Cell Reports Medicine, 2021, 2, 100248.	6.5	18
71	Angiotensin II Type 2 Receptor Stimulation Improves Fatty Acid Ovarian Uptake and Hyperandrogenemia in an Obese Rat Model of Polycystic Ovary Syndrome. Endocrinology, 2014, 155, 3684-3693.	2.8	17
72	Seven-Day Caloric and Saturated Fat Restriction Increases Myocardial Dietary Fatty Acid Partitioning in Impaired Glucose-Tolerant Subjects. Diabetes, 2015, 64, 3690-3699.	0.6	17

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73	The role of BAT in cardiometabolic disorders and aging. Best Practice and Research in Clinical Endocrinology and Metabolism, 2016, 30, 497-513.	4.7	17
74	Biliopancreatic diversion with duodenal switch leads to better postprandial glucose level and beta cell function than sleeve gastrectomy in individuals with type 2 diabetes very early after surgery. Metabolism: Clinical and Experimental, 2017, 74, 10-21.	3.4	17
75	Self-reported Severe and Nonsevere Hypoglycemia in Type 1 Diabetes: Population Surveillance Through the BETTER Patient Engagement Registry: Development and Baseline Characteristics. Canadian Journal of Diabetes, 2022, 46, 813-821.	0.8	17
76	Adiponectin has a pivotal role in the cardioprotective effect of CPâ€3(iv), a selective CD36 azapeptide ligand, after transient coronary artery occlusion in mice. FASEB Journal, 2018, 32, 807-818.	0.5	16
77	Altered branched-chain Î±-keto acid metabolism is a feature of NAFLD in individuals with severe obesity. JCI Insight, 2022, 7, .	5.0	16
78	The transcription factor hepatocyte nuclear factor 4A acts in the intestine to promote white adipose tissue energy storage. Nature Communications, 2022, 13, 224.	12.8	15
79	Effectiveness of a Multidisciplinary Program for Management of Obesity: The UnitÃ© dâ€™Enseignement, de Traitement et de Recherche sur lâ€™ObÃ©sitÃ© (UETRO) Database Study. Metabolic Syndrome and Related Disorders, 2009, 7, 297-304.	1.3	13
80	Improved Plasma FFA/Insulin Homeostasis Is Independently Associated With Improved Glucose Tolerance After a 1-Year Lifestyle Intervention in Viscerally Obese Men. Diabetes Care, 2013, 36, 3254-3261.	8.6	13
81	Omental adipocyte hypertrophy relates to coenzyme Q10 redox state and lipid peroxidation in obese women. Journal of Lipid Research, 2015, 56, 1985-1992.	4.2	13
82	Dietary fatty acid metabolism in prediabetes. Current Opinion in Lipidology, 2016, 28, 1.	2.7	13
83	Efficacy of Artificial Pancreas Use in Patients With Type 2 Diabetes Using Intensive Insulin Therapy: A Randomized Crossover Pilot Trial. Diabetes Care, 2019, 42, e107-e109.	8.6	13
84	Increased postprandial nonesterified fatty acid efflux from adipose tissue in prediabetes is offset by enhanced dietary fatty acid adipose trapping. American Journal of Physiology - Endocrinology and Metabolism, 2021, 320, E1093-E1106.	3.5	13
85	Effects of Biliopancreatic Diversion on Bone Turnover Markers and Association with Hormonal Factors in Patients with Severe Obesity. Obesity Surgery, 2019, 29, 990-998.	2.1	11
86	HNF1Î± defect influences post-prandial lipid regulation. PLoS ONE, 2017, 12, e0177110.	2.5	10
87	DeepImageTranslator: A free, user-friendly graphical interface for image translation using deep-learning and its applications in 3D CT image analysis. SLAS Technology, 2022, 27, 76-84.	1.9	10
88	Acute and Chronic Impact of Bariatric Surgery on Plasma LDL Cholesterol and PCSK9 Levels in Patients With Severe Obesity. Journal of Clinical Endocrinology and Metabolism, 2017, 102, 4023-4030.	3.6	9
89	A Linear Fragment of Unacylated Ghrelin (UAG6â˜13) Protects Against Myocardial Ischemia/Reperfusion Injury in Mice in a Growth Hormone Secretagogue Receptor-Independent Manner. Frontiers in Endocrinology, 2018, 9, 798.	3.5	9
90	Seven-day overfeeding enhances adipose tissue dietary fatty acid storage and decreases myocardial and skeletal muscle dietary fatty acid partitioning in healthy subjects. American Journal of Physiology - Endocrinology and Metabolism, 2020, 318, E286-E296.	3.5	9

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91	Hypertriglyceridemia Associated With Abdominal Obesity. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 2076-2078.	2.4	8
92	Postprandial fatty acid uptake and adipocyte remodeling in angiotensin type 2 receptor-deficient mice fed a high-fat/high-fructose diet. Adipocyte, 2016, 5, 43-52.	2.8	7
93	Molecular imaging of postprandial metabolism. Journal of Applied Physiology, 2018, 124, 504-511.	2.5	7
94	HNF4Î± is a novel regulator of intestinal glucose-dependent insulinotropic polypeptide. Scientific Reports, 2019, 9, 4200.	3.3	7
95	Branched-chain Amino Acid Catabolism by Brown Adipose Tissue. Endocrinology, 2020, 161, .	2.8	7
96	Remodeling adipose tissue through in silico modulation of fat storage for the prevention of type 2 diabetes. BMC Systems Biology, 2017, 11, 60.	3.0	6
97	Total Postprandial Hepatic Nonesterified and Dietary Fatty Acid Uptake Is Increased and Insufficiently Curbed by Adipose Tissue Fatty Acid Trapping in Prediabetes With Overweight. Diabetes, 2022, 71, 1891-1901.	0.6	6
98	Subcutaneous adipose tissue metabolism and pharmacology: a new investigative technique. Canadian Journal of Physiology and Pharmacology, 2011, 89, 383-391.	1.4	5
99	Contribution of perfusion to the 11 Câ€acetate signal in brown adipose tissue assessed by DCEâ€MRI and 68 Gaâ€DOTA PET in a rat model. Magnetic Resonance in Medicine, 2021, 85, 1625-1642.	3.0	5
100	Acute Adaptation of Energy Expenditure Predicts Diet-Induced Weight Loss: Revisiting the Thrifty Phenotype: Figure 1. Diabetes, 2015, 64, 2714-2716.	0.6	4
101	Impact of an educational intervention combining clinical obesity preceptorship with electronic networking tools on primary care professionals: a prospective study. BMC Medical Education, 2020, 20, 361.	2.4	4
102	Association between changes in bioactive osteocalcin and glucose homeostasis after biliopancreatic diversion. Endocrine, 2020, 69, 526-535.	2.3	4
103	Impaired Cold-Stimulated Supraclavicular Brown Adipose Tissue Activity in Young Boys With Obesity. Diabetes, 2022, 71, 1193-1204.	0.6	4
104	Acute effect of passive heat exposure on markers of cardiometabolic function in adults with type 2 diabetes mellitus. Journal of Applied Physiology, 2022, 132, 1154-1166.	2.5	4
105	The 2012 CDA-CIHR INMD Young Investigator Award Lecture: Dysfunction of Adipose Tissues and the Mechanisms of Ectopic Fat Deposition in Type 2 Diabetes. Canadian Journal of Diabetes, 2013, 37, 109-114.	0.8	3
106	Acute and chronic effect of bariatric surgery on circulating autotaxin levels. Physiological Reports, 2019, 7, e14004.	1.7	3
107	Reply to GJ Wanten. American Journal of Clinical Nutrition, 2006, 83, 918-919.	4.7	1
108	Relationship Between Brown Adipose Tissue and Shivering in Coldâ€Exposed Humans. FASEB Journal, 2021, 35, .	0.5	0

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109	Brown Adipose Tissue Volume and Distribution in Premenopausal and Postmenopausal Women. FASEB Journal, 2021, 35, .	0.5	0
110	Cold acclimation increases the contribution of brown adipose tissueâ€derived thermogenesis in adult humans. FASEB Journal, 2013, 27, 1204.1.	0.5	0
111	Unacylated Ghrelin Protects Hearts of Mice Subjected to Myocardial Ischemia/Reperfusion. FASEB Journal, 2015, 29, 1026.4.	0.5	0