

AndrÃ© C Carpentier

List of Publications by Year in descending order

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Version: 2024-02-01

111
papers

7,584
citations

94433

37
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54911

84
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112
all docs

112
docs citations

112
times ranked

8161
citing authors

#	ARTICLE	IF	CITATIONS
1	Brown Adipose Tissue—A Translational Perspective. <i>Endocrine Reviews</i> , 2023, 44, 143-192.	20.1	49
2	Fat Cell Size: Measurement Methods, Pathophysiological Origins, and Relationships With Metabolic Dysregulations. <i>Endocrine Reviews</i> , 2022, 43, 35-60.	20.1	48
3	DeepImageTranslator: A free, user-friendly graphical interface for image translation using deep-learning and its applications in 3D CT image analysis. <i>SLAS Technology</i> , 2022, 27, 76-84.	1.9	10
4	The transcription factor hepatocyte nuclear factor 4A acts in the intestine to promote white adipose tissue energy storage. <i>Nature Communications</i> , 2022, 13, 224.	12.8	15
5	Impaired Cold-Stimulated Supraclavicular Brown Adipose Tissue Activity in Young Boys With Obesity. <i>Diabetes</i> , 2022, 71, 1193-1204.	0.6	4
6	Acute effect of passive heat exposure on markers of cardiometabolic function in adults with type 2 diabetes mellitus. <i>Journal of Applied Physiology</i> , 2022, 132, 1154-1166.	2.5	4
7	Self-reported Severe and Nonsevere Hypoglycemia in Type 1 Diabetes: Population Surveillance Through the BETTER Patient Engagement Registry: Development and Baseline Characteristics. <i>Canadian Journal of Diabetes</i> , 2022, 46, 813-821.	0.8	17
8	Total Postprandial Hepatic Nonesterified and Dietary Fatty Acid Uptake Is Increased and Insufficiently Curbed by Adipose Tissue Fatty Acid Trapping in Prediabetes With Overweight. <i>Diabetes</i> , 2022, 71, 1891-1901.	0.6	6
9	Altered branched-chain β -keto acid metabolism is a feature of NAFLD in individuals with severe obesity. <i>JCI Insight</i> , 2022, 7, .	5.0	16
10	Contribution of perfusion to the ^{11}C -acetate signal in brown adipose tissue assessed by DCE-MRI and ^{68}Ga -DOTA PET in a rat model. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 1625-1642.	3.0	5
11	Direct and indirect control of hepatic glucose production by insulin. <i>Cell Metabolism</i> , 2021, 33, 709-720.	16.2	61
12	IGFBP-2 partly mediates the early metabolic improvements caused by bariatric surgery. <i>Cell Reports Medicine</i> , 2021, 2, 100248.	6.5	18
13	100 th anniversary of the discovery of insulin perspective: insulin and adipose tissue fatty acid metabolism. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2021, 320, E653-E670.	3.5	35
14	Relationship Between Brown Adipose Tissue and Shivering in Cold-Exposed Humans. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
15	Brown Adipose Tissue Volume and Distribution in Premenopausal and Postmenopausal Women. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
16	Increased postprandial nonesterified fatty acid efflux from adipose tissue in prediabetes is offset by enhanced dietary fatty acid adipose trapping. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2021, 320, E1093-E1106.	3.5	13
17	Management of Obesity in Cardiovascular Practice. <i>Journal of the American College of Cardiology</i> , 2021, 78, 513-531.	2.8	36
18	Lower brown adipose tissue activity is associated with non-alcoholic fatty liver disease but not changes in the gut microbiota. <i>Cell Reports Medicine</i> , 2021, 2, 100397.	6.5	35

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19	Seven-day overfeeding enhances adipose tissue dietary fatty acid storage and decreases myocardial and skeletal muscle dietary fatty acid partitioning in healthy subjects. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2020, 318, E286-E296.	3.5	9
20	Human Brown Adipocyte Thermogenesis Is Driven by β 2-AR Stimulation. <i>Cell Metabolism</i> , 2020, 32, 287-300.e7.	16.2	185
21	Impact of an educational intervention combining clinical obesity preceptorship with electronic networking tools on primary care professionals: a prospective study. <i>BMC Medical Education</i> , 2020, 20, 361.	2.4	4
22	Association between changes in bioactive osteocalcin and glucose homeostasis after biliopancreatic diversion. <i>Endocrine</i> , 2020, 69, 526-535.	2.3	4
23	Metabolism of Exogenous D-Beta-Hydroxybutyrate, an Energy Substrate Avidly Consumed by the Heart and Kidney. <i>Frontiers in Nutrition</i> , 2020, 7, 13.	3.7	44
24	Measurement of bioactive osteocalcin in humans using a novel immunoassay reveals association with glucose metabolism and β 2-cell function. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2020, 318, E381-E391.	3.5	25
25	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. <i>Diabetes</i> , 2020, 69, 567-577.	0.6	21
26	Branched-chain Amino Acid Catabolism by Brown Adipose Tissue. <i>Endocrinology</i> , 2020, 161, .	2.8	7
27	Adipose ABHD6 regulates tolerance to cold and thermogenic programs. <i>JCI Insight</i> , 2020, 5, .	5.0	20
28	Determination of a pharmacokinetic model for [^{11}C]-acetate in brown adipose tissue. <i>EJNMMI Research</i> , 2019, 9, 31.	2.5	18
29	Specific loss of adipocyte CD248 improves metabolic health via reduced white adipose tissue hypoxia, fibrosis and inflammation. <i>EBioMedicine</i> , 2019, 44, 489-501.	6.1	29
30	Efficacy of Artificial Pancreas Use in Patients With Type 2 Diabetes Using Intensive Insulin Therapy: A Randomized Crossover Pilot Trial. <i>Diabetes Care</i> , 2019, 42, e107-e109.	8.6	13
31	Acute and chronic effect of bariatric surgery on circulating autotaxin levels. <i>Physiological Reports</i> , 2019, 7, e14004.	1.7	3
32	HNF4 α is a novel regulator of intestinal glucose-dependent insulinotropic polypeptide. <i>Scientific Reports</i> , 2019, 9, 4200.	3.3	7
33	MRI Reveals Human Brown Adipose Tissue Is Rapidly Activated in Response to Cold. <i>Journal of the Endocrine Society</i> , 2019, 3, 2374-2384.	0.2	25
34	Effects of Biliopancreatic Diversion on Bone Turnover Markers and Association with Hormonal Factors in Patients with Severe Obesity. <i>Obesity Surgery</i> , 2019, 29, 990-998.	2.1	11
35	Abnormal Myocardial Dietary Fatty Acid Metabolism and Diabetic Cardiomyopathy. <i>Canadian Journal of Cardiology</i> , 2018, 34, 605-614.	1.7	49
36	Molecular imaging of postprandial metabolism. <i>Journal of Applied Physiology</i> , 2018, 124, 504-511.	2.5	7

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37	Adiponectin has a pivotal role in the cardioprotective effect of CPαβ(iv), a selective CD36 azapeptide ligand, after transient coronary artery occlusion in mice. <i>FASEB Journal</i> , 2018, 32, 807-818.	0.5	16
38	Plasma Palmitoyl-Carnitine (AC16:0) Is a Marker of Increased Postprandial Nonesterified Incomplete Fatty Acid Oxidation Rate in Adults With Type 2 Diabetes. <i>Canadian Journal of Diabetes</i> , 2018, 42, 382-388.e1.	0.8	25
39	Recent advances in the detection of brown adipose tissue in adult humans: a review. <i>Clinical Science</i> , 2018, 132, 1039-1054.	4.3	63
40	Brown Adipose Tissue Energy Metabolism in Humans. <i>Frontiers in Endocrinology</i> , 2018, 9, 447.	3.5	223
41	A Linear Fragment of Unacylated Ghrelin (UAG6âˆ³13) Protects Against Myocardial Ischemia/Reperfusion Injury in Mice in a Growth Hormone Secretagogue Receptor-Independent Manner. <i>Frontiers in Endocrinology</i> , 2018, 9, 798.	3.5	9
42	Dietary fatty acid metabolism of brown adipose tissue in cold-acclimated men. <i>Nature Communications</i> , 2017, 8, 14146.	12.8	119
43	Inhibition of Intracellular Triglyceride Lipolysis Suppresses Cold-Induced Brown Adipose Tissue Metabolism and Increases Shivering in Humans. <i>Cell Metabolism</i> , 2017, 25, 438-447.	16.2	157
44	Remodeling adipose tissue through in silico modulation of fat storage for the prevention of type 2 diabetes. <i>BMC Systems Biology</i> , 2017, 11, 60.	3.0	6
45	Early Metabolic Improvement After Bariatric Surgery: The First Steps Toward Remission of Type 2 Diabetes. <i>Canadian Journal of Diabetes</i> , 2017, 41, 418-425.	0.8	22
46	Fourâ€week cold acclimation in adult humans shifts uncoupling thermogenesis from skeletal muscles to brown adipose tissue. <i>Journal of Physiology</i> , 2017, 595, 2099-2113.	2.9	95
47	Acute and Chronic Impact of Bariatric Surgery on Plasma LDL Cholesterol and PCSK9 Levels in Patients With Severe Obesity. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2017, 102, 4023-4030.	3.6	9
48	Fatty Acid Metabolic Remodeling During Type 2 Diabetes Remission After Bariatric Surgery. <i>Diabetes</i> , 2017, 66, 2743-2755.	0.6	24
49	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. <i>Metabolism: Clinical and Experimental</i> , 2017, 74, 10-21.	3.4	17
50	HNF1â± defect influences post-prandial lipid regulation. <i>PLoS ONE</i> , 2017, 12, e0177110.	2.5	10
51	Postprandial fatty acid uptake and adipocyte remodeling in angiotensin type 2 receptor-deficient mice fed a high-fat/high-fructose diet. <i>Adipocyte</i> , 2016, 5, 43-52.	2.8	7
52	The role of BAT in cardiometabolic disorders and aging. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , 2016, 30, 497-513.	4.7	17
53	Dietary fatty acid metabolism in prediabetes. <i>Current Opinion in Lipidology</i> , 2016, 28, 1.	2.7	13
54	MK2 Deletion in Mice Prevents Diabetes-Induced Perturbations in Lipid Metabolism and Cardiac Dysfunction. <i>Diabetes</i> , 2016, 65, 381-392.	0.6	29

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55	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
56	Acute Adaptation of Energy Expenditure Predicts Diet-Induced Weight Loss: Revisiting the Thrifty Phenotype: Figure 1. Diabetes, 2015, 64, 2714-2716.	0.6	4
57	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
58	<i>In vivo</i> measurement of energy substrate contribution to cold-induced brown adipose tissue thermogenesis. FASEB Journal, 2015, 29, 2046-2058.	0.5	183
59	Effect of Sex and Impaired Glucose Tolerance on Organ-Specific Dietary Fatty Acid Metabolism in Humans. Diabetes, 2015, 64, 2432-2441.	0.6	22
60	A critical appraisal of brown adipose tissue metabolism in humans. Clinical Lipidology, 2015, 10, 259-280.	0.4	20
61	Hypertriglyceridemia Associated With Abdominal Obesity. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 2076-2078.	2.4	8
62	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
63	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
64	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
65	Contributions of white and brown adipose tissues and skeletal muscles to acute cold-induced metabolic responses in healthy men. Journal of Physiology, 2015, 593, 701-714.	2.9	195
66	Unacylated Ghrelin Protects Hearts of Mice Subjected to Myocardial Ischemia/Reperfusion. FASEB Journal, 2015, 29, 1026.4.	0.5	0
67	Effects of Combined Calcium and Vitamin D Supplementation on Insulin Secretion, Insulin Sensitivity and β -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
68	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
69	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
70	Limited Recovery of β -Cell Function After Gastric Bypass Despite Clinical Diabetes Remission. Diabetes, 2014, 63, 1214-1223.	0.6	76
71	Increased Brown Adipose Tissue Oxidative Capacity in Cold-Acclimated Humans. Journal of Clinical Endocrinology and Metabolism, 2014, 99, E438-E446.	3.6	251
72	[^{11}C]-Acetoacetate PET imaging: a potential early marker for cardiac heart failure. Nuclear Medicine and Biology, 2014, 41, 863-870.	0.6	22

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73	Biliopancreatic diversion with duodenal switch improves insulin sensitivity and secretion through caloric restriction. <i>Obesity</i> , 2014, 22, 1838-1846.	3.0	48
74	Improved Plasma FFA/Insulin Homeostasis Is Independently Associated With Improved Glucose Tolerance After a 1-Year Lifestyle Intervention in Viscerally Obese Men. <i>Diabetes Care</i> , 2013, 36, 3254-3261.	8.6	13
75	Angiotensin II type 2 receptor promotes adipocyte differentiation and restores adipocyte size in high-fat/high-fructose diet-induced insulin resistance in rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013, 304, E197-E210.	3.5	50
76	The 2012 CDA-CIHR INMD Young Investigator Award Lecture: Dysfunction of Adipose Tissues and the Mechanisms of Ectopic Fat Deposition in Type 2 Diabetes. <i>Canadian Journal of Diabetes</i> , 2013, 37, 109-114.	0.8	3
77	Cold acclimation increases the contribution of brown adipose tissue-derived thermogenesis in adult humans. <i>FASEB Journal</i> , 2013, 27, 1204.1.	0.5	0
78	Update on adipose tissue blood flow regulation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012, 302, E1157-E1170.	3.5	32
79	Effect of Alipogene Tiparvec (AAV1-LPL ^{S447X}) on Postprandial Chylomicron Metabolism in Lipoprotein Lipase-Deficient Patients. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2012, 97, 1635-1644.	3.6	146
80	Brown adipose tissue oxidative metabolism contributes to energy expenditure during acute cold exposure in humans. <i>Journal of Clinical Investigation</i> , 2012, 122, 545-552.	8.2	815
81	Increased Myocardial Uptake of Dietary Fatty Acids Linked to Cardiac Dysfunction in Glucose-Intolerant Humans. <i>Diabetes</i> , 2012, 61, 2701-2710.	0.6	95
82	EP 80317, a selective CD36 ligand, shows cardioprotective effects against post-ischæmic myocardial damage in mice. <i>Cardiovascular Research</i> , 2012, 96, 99-108.	3.8	46
83	Therapeutic potential of antisense oligonucleotides for the management of dyslipidemia. <i>Clinical Lipidology</i> , 2011, 6, 703-716.	0.4	20
84	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. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2011, 96, 192-199.	3.6	473
85	Subcutaneous adipose tissue metabolism and pharmacology: a new investigative technique. <i>Canadian Journal of Physiology and Pharmacology</i> , 2011, 89, 383-391.	1.4	5
86	Organ-specific dietary fatty acid uptake in humans using positron emission tomography coupled to computed tomography. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011, 300, E445-E453.	3.5	78
87	Normal Postprandial Nonesterified Fatty Acid Uptake in Muscles Despite Increased Circulating Fatty Acids in Type 2 Diabetes. <i>Diabetes</i> , 2011, 60, 408-415.	0.6	38
88	Lipid-induced pancreatic β -cell dysfunction: focus on in vivo studies. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011, 300, E255-E262.	3.5	178
89	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. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2010, 37, 1539-1550.	6.4	86
90	Increased Postprandial Nonesterified Fatty Acid Appearance and Oxidation in Type 2 Diabetes Is Not Fully Established in Offspring of Diabetic Subjects. <i>PLoS ONE</i> , 2010, 5, e10956.	2.5	37

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91	Abnormal in vivo myocardial energy substrate uptake in diet-induced type 2 diabetic cardiomyopathy in rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010, 298, E1049-E1057.	3.5	82
92	Plasma Nonesterified Fatty Acid Intolerance and Hyperglycemia Are Associated with Intravenous Lipid-Induced Impairment of Insulin Sensitivity and Disposition Index. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2010, 95, 1256-1264.	3.6	32
93	Effectiveness of a Multidisciplinary Program for Management of Obesity: The Unit d'Enseignement, de Traitement et de Recherche sur l'Obésité (UETRO) Database Study. <i>Metabolic Syndrome and Related Disorders</i> , 2009, 7, 297-304.	1.3	13
94	Mechanism of Reduced Myocardial Glucose Utilization During Acute Hypertriglyceridemia in Rats. <i>Molecular Imaging and Biology</i> , 2009, 11, 6-14.	2.6	20
95	Postprandial fatty acid metabolism in the development of lipotoxicity and type 2 diabetes. <i>Diabetes and Metabolism</i> , 2008, 34, 97-107.	2.9	72
96	Mechanism of insulin-stimulated clearance of plasma nonesterified fatty acids in humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 292, E693-E701.	3.5	24
97	Modulation of T-cell signalling by non-esterified fatty acids. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2007, 77, 337-343.	2.2	26
98	Reply to GJ Wanten. <i>American Journal of Clinical Nutrition</i> , 2006, 83, 918-919.	4.7	1
99	The Effect of Insulin on the Intracellular Distribution of 14(R,S)-[18F]Fluoro-6-thia-heptadecanoic Acid in Rats. <i>Molecular Imaging and Biology</i> , 2006, 8, 237-244.	2.6	43
100	Acute in vivo elevation of intravascular triacylglycerol lipolysis impairs peripheral T cell activation in humans. <i>American Journal of Clinical Nutrition</i> , 2005, 82, 949-956.	4.7	38
101	On the suppression of plasma nonesterified fatty acids by insulin during enhanced intravascular lipolysis in humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005, 289, E849-E856.	3.5	60
102	Mechanism of highly active anti-retroviral therapy-induced hyperlipidemia in HIV-infected individuals. <i>Atherosclerosis</i> , 2005, 178, 165-172.	0.8	49
103	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. <i>Diabetes</i> , 2003, 52, 1485-1495.	0.6	32
104	Mechanisms of the free fatty acid-induced increase in hepatic glucose production. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2003, 284, E863-E873.	3.5	208
105	Disordered Fat Storage and Mobilization in the Pathogenesis of Insulin Resistance and Type 2 Diabetes. <i>Endocrine Reviews</i> , 2002, 23, 201-229.	20.1	1,046
106	Sensitivity to Acute Insulin-Mediated Suppression of Plasma Free Fatty Acids Is Not a Determinant of Fasting VLDL Triglyceride Secretion in Healthy Humans. <i>Diabetes</i> , 2002, 51, 1867-1875.	0.6	40
107	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. <i>Journal of Biological Chemistry</i> , 2002, 277, 28795-28802.	3.4	89
108	The Effect of Systemic Versus Portal Insulin Delivery in Pancreas Transplantation on Insulin Action and VLDL Metabolism. <i>Diabetes</i> , 2001, 50, 1402-1413.	0.6	71

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109	Hepatitis C-related cirrhosis: A predictor of diabetes after liver transplantation. <i>Hepatology</i> , 2000, 32, 87-90.	7.3	149
110	Mechanisms of Hepatic Very Low Density Lipoprotein Overproduction in Insulin Resistance. <i>Journal of Biological Chemistry</i> , 2000, 275, 8416-8425.	3.4	278
111	Acute enhancement of insulin secretion by FFA in humans is lost with prolonged FFA elevation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1999, 276, E1055-E1066.	3.5	131