Eugene J Barrett

List of Publications by Year
in descending order

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75 papers	4,663 citations	101496 36 h-index	98753 67 g-index
82 all docs	82 docs citations	82 times ranked	4723 citing authors

#	Article	IF	Citations
1	Acute hyperglycaemia enhances both vascular endothelial function and cardiac and skeletal muscle microvascular function in healthy humans. Journal of Physiology, 2022, 600, 949-962.	1.3	9
2	Predictors of arterial stiffness in adolescents and adults with type 1 diabetes: a cross-sectional study. BMJ Open Diabetes Research and Care, 2022, 10, e002491.	1.2	2
3	Nitric oxide-dependent micro- and macrovascular dysfunction occurs early in adolescents with type 1 diabetes. American Journal of Physiology - Endocrinology and Metabolism, 2022, 322, E101-E108.	1.8	5
4	Metformin prevents endothelial oxidative stress and microvascular insulin resistance during obesity development in male rats. American Journal of Physiology - Endocrinology and Metabolism, 2022, 322, E293-E306.	1.8	12
5	Metformin improves skeletal muscle microvascular insulin resistance in metabolic syndrome. American Journal of Physiology - Endocrinology and Metabolism, 2022, 322, E173-E180.	1.8	9
6	Microvascular Dysfunction in Diabetes Mellitus and Cardiometabolic Disease. Endocrine Reviews, 2021, 42, 29-55.	8.9	108
7	Insulin increases central aortic stiffness in response to hyperglycemia in healthy humans: A randomized four-arm study. Diabetes and Vascular Disease Research, 2021, 18, 147916412110110.	0.9	5
8	Diabetes pathogenesis and management: the endothelium comes of age. Journal of Molecular Cell Biology, 2021, 13, 500-512.	1.5	21
9	Insulin-mediated muscle microvascular perfusion and its phenotypic predictors in humans. Scientific Reports, 2021, 11, 11433.	1.6	4
10	Early Microvascular Dysfunction: Is the Vasa Vasorum a â€œMissing Linkâ€•in Insulin Resistance and Atherosclerosis. International Journal of Molecular Sciences, 2021, 22, 7574.	1.8	10
11	The Insulin Receptor Mediates Insulinâ€™s Early Plasma Clearance by Liver, Muscle, and Kidney. Biomedicines, 2021, 9, 37.	1.4	9
12	Hyperglycemia does not inhibit insulinâ€™s effects on microvascular perfusion in healthy humans: a randomized crossover study. American Journal of Physiology - Endocrinology and Metabolism, 2020, 319, E753-E762.	1.8	7
13	Brain Endothelial Cells Regulate Glucagon-Like Peptide 1 Entry Into the Brain via a Receptor-Mediated Process. Frontiers in Physiology, 2020, 11, 555.	1.3	16
14	Perfusion controls muscle glucose uptake by altering the rate of glucose dispersion in vivo. American Journal of Physiology - Endocrinology and Metabolism, 2020, 318, E311-E312.	1.8	4
15	Vasodilatory Actions of Glucagon-Like Peptide 1 Are Preserved in Skeletal and Cardiac Muscle Microvasculature but Not in Conduit Artery in Obese Humans With Vascular Insulin Resistance. Diabetes Care, 2020, 43, 634-642.	4.3	30
16	Inhibiting myeloperoxidase prevents onset and reverses established high-fat diet-induced microvascular insulin resistance. American Journal of Physiology - Endocrinology and Metabolism, 2019, 317, E1063-E1069.	1.8	9
17	Evidence supports prediabetes treatment. Science, 2019, 364, 341-342.	6.0	18
18	Pannexin 1 Channels as an Unexpected New Target of the Anti-Hypertensive Drug Spironolactone. Circulation Research, 2018, 122, 606-615.	2.0	76

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19	Insulin transport into the brain. American Journal of Physiology - Cell Physiology, 2018, 315, C125-C136.	2.1	45
20	Unravelling the regulation of insulin transport across the brain endothelial cell. Diabetologia, 2017, 60, 1512-1521.	2.9	79
21	Diabetic Microvascular Disease: An Endocrine Society Scientific Statement. Journal of Clinical Endocrinology and Metabolism, 2017, 102, 4343-4410.	1.8	323
22	Independent tissue contributors to obesity-associated insulin resistance. JCI Insight, 2017, 2, .	2.3	25
23	Evidence for congruent impairment in micro and macrovascular function in type 1 diabetes. PLoS ONE, 2017, 12, e0187525.	1.1	12
24	Exercise Intensity Modulates Glucose-Stimulated Insulin Secretion when Adjusted for Adipose, Liver and Skeletal Muscle Insulin Resistance. PLoS ONE, 2016, 11, e0154063.	1.1	39
25	Endothelial function following glucose ingestion in adults with prediabetes: Role of exercise intensity. Obesity, 2016, 24, 1515-1521.	1.5	12
26	Liraglutide prevents microvascular insulin resistance and preserves muscle capillary density in high-fat diet-fed rats. American Journal of Physiology - Endocrinology and Metabolism, 2016, 311, E640-E648.	1.8	33
27	Exercise resistance across the prediabetes phenotypes: Impact on insulin sensitivity and substrate metabolism. Reviews in Endocrine and Metabolic Disorders, 2016, 17, 81-90.	2.6	25
28	Modulating Vascular Hemodynamics With an Alpha Globin Mimetic Peptide (HbÎ±X). Hypertension, 2016, 68, 1494-1503.	1.3	26
29	Pathways for insulin access to the brain: the role of the microvascular endothelial cell. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 311, H1132-H1138.	1.5	38
30	Insulin Enhances Endothelial Function Throughout the Arterial Tree in Healthy But Not Metabolic Syndrome Subjects. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 1198-1206.	1.8	54
31	Muscle microvasculature's structural and functional specializations facilitate muscle metabolism. American Journal of Physiology - Endocrinology and Metabolism, 2016, 310, E379-E387.	1.8	35
32	Inflammation-induced microvascular insulin resistance is an early event in diet-induced obesity. Clinical Science, 2015, 129, 1025-1036.	1.8	46
33	Globular adiponectin ameliorates metabolic insulin resistance via AMPKâ€mediated restoration of microvascular insulin responses. Journal of Physiology, 2015, 593, 4067-4079.	1.3	33
34	The Effect of Exercise Intensity on Endothelial Function in Physically Inactive Lean and Obese Adults. PLoS ONE, 2014, 9, e85450.	1.1	36
35	Glucagon-Like Peptide 1 Recruits Muscle Microvasculature and Improves Insulinâ€™s Metabolic Action in the Presence of Insulin Resistance. Diabetes, 2014, 63, 2788-2799.	0.3	57
36	CrossTalk proposal: De novo capillary recruitment in healthy muscle is necessary. Journal of Physiology, 2014, 592, 5129-5131.	1.3	9

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37	Rebuttal from Eugene J. Barrett, Michelle A. Keske, Stephen Rattigan and Etto C. Eringa. Journal of Physiology, 2014, 592, 5137-5138.	1.3	1
38	Insulin Regulates Brain Function, but How Does It Get There?. Diabetes, 2014, 63, 3992-3997.	0.3	175
39	The endothelial cell: An â€œearly responderâ€•in the development of insulin resistance. Reviews in Endocrine and Metabolic Disorders, 2013, 14, 21-27.	2.6	68
40	Globular Adiponectin Enhances Muscle Insulin Action via Microvascular Recruitment and Increased Insulin Delivery. Circulation Research, 2013, 112, 1263-1271.	2.0	36
41	Endothelial Cells Actively Concentrate Insulin During its Transendothelial Transport. Microcirculation, 2013, 20, 434-439.	1.0	20
42	Early Microvascular Recruitment Modulates Subsequent Insulin-Mediated Skeletal Muscle Glucose Metabolism During Lipid Infusion. Diabetes Care, 2013, 36, 104-110.	4.3	19
43	Muscle Perfusion. Diabetes, 2012, 61, 2661-2668.	0.3	43
44	Insulinâ€•Induced Microvascular Recruitment in Skin and Muscle are Related and Both are Associated with Wholeâ€•Body Glucose Uptake. Microcirculation, 2012, 19, 494-500.	1.0	68
45	The Vascular Contribution to Insulin Resistance: Promise, Proof, and Pitfalls. Diabetes, 2012, 61, 3063-3065.	0.3	10
46	Which Combination Therapy Is Superior at Reducing Cardiovascular Events in Diabetic Patients with Hypertension?. Current Diabetes Reports, 2011, 11, 151-153.	1.7	0
47	Free Fatty Acids Induce Insulin Resistance in Both Cardiac and Skeletal Muscle Microvasculature in Humans. Journal of Clinical Endocrinology and Metabolism, 2011, 96, 438-446.	1.8	73
48	PS3 - 16. Insulin induced vasoreactivity is dependent on perivascular adipose tissue as well as resistance artery properties after a two-week high fat diet in mice. Nederlands Tijdschrift Voor Diabetologie, 2011, 9, 101-101.	0.0	0
49	Salsalate Attenuates Free Fatty Acidâ€“Induced Microvascular and Metabolic Insulin Resistance in Humans. Diabetes Care, 2011, 34, 1634-1638.	4.3	37
50	Insulin regulates its own delivery to skeletal muscle by feed-forward actions on the vasculature. American Journal of Physiology - Endocrinology and Metabolism, 2011, 301, E252-E263.	1.8	144
51	Angiotensin II Type 1 and Type 2 Receptors Regulate Basal Skeletal Muscle Microvascular Volume and Glucose Use. Hypertension, 2010, 55, 523-530.	1.3	75
52	Muscle Contraction, but Not Insulin, Increases Microvascular Blood Volume in the Presence of Free Fatty Acidâ€“Induced Insulin Resistance. Diabetes, 2009, 58, 2457-2463.	0.3	45
53	Infusing Lipid Raises Plasma Free Fatty Acids and Induces Insulin Resistance in Muscle Microvasculature. Journal of Clinical Endocrinology and Metabolism, 2009, 94, 3543-3549.	1.8	99
54	Abnormal Skeletal Muscle Capillary Recruitment During Exercise in Patients With Type 2 Diabetes Mellitus and Microvascular Complications. Journal of the American College of Cardiology, 2009, 53, 2175-2183.	1.2	111

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55	Hyperglycemia and Acute Coronary Syndrome. Circulation, 2008, 117, 1610-1619.	1.6	397
56	Hyperinsulinemia Rapidly Increases Human Muscle Microvascular Perfusion but Fails to Increase Muscle Insulin Clearance: Evidence That a Saturable Process Mediates Muscle Insulin Uptake. Diabetes, 2007, 56, 2958-2963.	0.3	77
57	Contraction Stimulates Nitric Oxide Independent Microvascular Recruitment and Increases Muscle Insulin Uptake. Diabetes, 2007, 56, 2194-2200.	0.3	69
58	Skeletal muscle capillary responses to insulin are abnormal in late-stage diabetes and are restored by angiogensin-converting enzyme inhibition. American Journal of Physiology - Endocrinology and Metabolism, 2007, 293, E1804-E1809.	1.8	75
59	Mixed meal and light exercise each recruit muscle capillaries in healthy humans. American Journal of Physiology - Endocrinology and Metabolism, 2006, 290, E1191-E1197.	1.8	160
60	Obesity Blunts Insulin-Mediated Microvascular Recruitment in Human Forearm Muscle. Diabetes, 2006, 55, 1436-1442.	0.3	262
61	The vascular endothelial cell mediates insulin transport into skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2006, 291, E323-E332.	1.8	78
62	Insulin at Physiological Concentrations Selectively Activates Insulin But Not Insulin-Like Growth Factor I (IGF-I) or Insulin/IGF-I Hybrid Receptors in Endothelial Cells. Endocrinology, 2005, 146, 4690-4696.	1.4	131
63	Skeletal muscle contraction stimulates capillary recruitment and glucose uptake in insulin-resistant obese Zucker rats. American Journal of Physiology - Endocrinology and Metabolism, 2004, 287, E804-E809.	1.8	55
64	Microvascular Recruitment Is an Early Insulin Effect That Regulates Skeletal Muscle Glucose Uptake In Vivo. Diabetes, 2004, 53, 1418-1423.	0.3	367
65	The American Diabetes Association, the American Cancer Society, and the American Heart Association: A triumvirate of hope for the nation's health. Diabetes Care, 2004, 27, 1789-1790.	4.3	3
66	The vasodilatory actions of insulin on resistance and terminal arterioles and their impact on muscle glucose uptake. Diabetes/Metabolism Research and Reviews, 2004, 20, 3-12.	1.7	91
67	Blood flow and muscle metabolism: a focus on insulin action. American Journal of Physiology - Endocrinology and Metabolism, 2003, 284, E241-E258.	1.8	293
68	TNF-Î± acutely inhibits vascular effects of physiological but not high insulin or contraction. American Journal of Physiology - Endocrinology and Metabolism, 2003, 285, E654-E660.	1.8	54
69	Insulinâ€™s effect on glucose production: direct or indirect?. Journal of Clinical Investigation, 2003, 111, 434-435.	3.9	7
70	Insulin-Mediated Hemodynamic Changes Are Impaired in Muscle of Zucker Obese Rats. Diabetes, 2002, 51, 3492-3498.	0.3	122
71	Heterogeneity of laser Doppler flowmetry in perfused muscle indicative of nutritive and nonnutritive flow. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 280, H1324-H1333.	1.5	21
72	Insulin stimulates laser Doppler signal by rat muscle in vivo, consistent with nutritive flow recruitment. Clinical Science, 2001, 100, 283-290.	1.8	45

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73	Physiological Hyperinsulinemia Stimulates p70^{S6k}Phosphorylation in Human Skeletal Muscle¹. Journal of Clinical Endocrinology and Metabolism, 2000, 85, 4900-4904.	1.8	21
74	Insulin and glucose suppress hepatic glycogenolysis by distinct enzymatic mechanisms. Metabolism: Clinical and Experimental, 1993, 42, 1546-1551.	1.5	24
75	Utilizing Standardized Patients to Enhance Health Literacy Communication Skills. MedEdPORTAL: the Journal of Teaching and Learning Resources, 0, , .	0.5	3