

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	Hyperglycemia and Acute Coronary Syndrome. <i>Circulation</i> , 2008, 117, 1610-1619.	1.6	397
2	Microvascular Recruitment Is an Early Insulin Effect That Regulates Skeletal Muscle Glucose Uptake In Vivo. <i>Diabetes</i> , 2004, 53, 1418-1423.	0.3	367
3	Diabetic Microvascular Disease: An Endocrine Society Scientific Statement. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2017, 102, 4343-4410.	1.8	323
4	Blood flow and muscle metabolism: a focus on insulin action. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2003, 284, E241-E258.	1.8	293
5	Obesity Blunts Insulin-Mediated Microvascular Recruitment in Human Forearm Muscle. <i>Diabetes</i> , 2006, 55, 1436-1442.	0.3	262
6	Insulin Regulates Brain Function, but How Does It Get There?. <i>Diabetes</i> , 2014, 63, 3992-3997.	0.3	175
7	Mixed meal and light exercise each recruit muscle capillaries in healthy humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006, 290, E1191-E1197.	1.8	160
8	Insulin regulates its own delivery to skeletal muscle by feed-forward actions on the vasculature. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011, 301, E252-E263.	1.8	144
9	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. <i>Endocrinology</i> , 2005, 146, 4690-4696.	1.4	131
10	Insulin-Mediated Hemodynamic Changes Are Impaired in Muscle of Zucker Obese Rats. <i>Diabetes</i> , 2002, 51, 3492-3498.	0.3	122
11	Abnormal Skeletal Muscle Capillary Recruitment During Exercise in Patients With Type 2 Diabetes Mellitus and Microvascular Complications. <i>Journal of the American College of Cardiology</i> , 2009, 53, 2175-2183.	1.2	111
12	Microvascular Dysfunction in Diabetes Mellitus and Cardiometabolic Disease. <i>Endocrine Reviews</i> , 2021, 42, 29-55.	8.9	108
13	Infusing Lipid Raises Plasma Free Fatty Acids and Induces Insulin Resistance in Muscle Microvasculature. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2009, 94, 3543-3549.	1.8	99
14	The vasodilatory actions of insulin on resistance and terminal arterioles and their impact on muscle glucose uptake. <i>Diabetes/Metabolism Research and Reviews</i> , 2004, 20, 3-12.	1.7	91
15	Unravelling the regulation of insulin transport across the brain endothelial cell. <i>Diabetologia</i> , 2017, 60, 1512-1521.	2.9	79
16	The vascular endothelial cell mediates insulin transport into skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006, 291, E323-E332.	1.8	78
17	Hyperinsulinemia Rapidly Increases Human Muscle Microvascular Perfusion but Fails to Increase Muscle Insulin Clearance: Evidence That a Saturable Process Mediates Muscle Insulin Uptake. <i>Diabetes</i> , 2007, 56, 2958-2963.	0.3	77
18	Pannexin 1 Channels as an Unexpected New Target of the Anti-Hypertensive Drug Spironolactone. <i>Circulation Research</i> , 2018, 122, 606-615.	2.0	76

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19	Skeletal muscle capillary responses to insulin are abnormal in late-stage diabetes and are restored by angiotensin-converting enzyme inhibition. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 293, E1804-E1809.	1.8	75
20	Angiotensin II Type 1 and Type 2 Receptors Regulate Basal Skeletal Muscle Microvascular Volume and Glucose Use. <i>Hypertension</i> , 2010, 55, 523-530.	1.3	75
21	Free Fatty Acids Induce Insulin Resistance in Both Cardiac and Skeletal Muscle Microvasculature in Humans. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2011, 96, 438-446.	1.8	73
22	Contraction Stimulates Nitric Oxide Independent Microvascular Recruitment and Increases Muscle Insulin Uptake. <i>Diabetes</i> , 2007, 56, 2194-2200.	0.3	69
23	Insulin-induced Microvascular Recruitment in Skin and Muscle are Related and Both are Associated with Whole-body Glucose Uptake. <i>Microcirculation</i> , 2012, 19, 494-500.	1.0	68
24	The endothelial cell: An "early responder" in the development of insulin resistance. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2013, 14, 21-27.	2.6	68
25	Glucagon-Like Peptide 1 Recruits Muscle Microvasculature and Improves Insulin's Metabolic Action in the Presence of Insulin Resistance. <i>Diabetes</i> , 2014, 63, 2788-2799.	0.3	57
26	Skeletal muscle contraction stimulates capillary recruitment and glucose uptake in insulin-resistant obese Zucker rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2004, 287, E804-E809.	1.8	55
27	TNF- α acutely inhibits vascular effects of physiological but not high insulin or contraction. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2003, 285, E654-E660.	1.8	54
28	Insulin Enhances Endothelial Function Throughout the Arterial Tree in Healthy But Not Metabolic Syndrome Subjects. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016, 101, 1198-1206.	1.8	54
29	Inflammation-induced microvascular insulin resistance is an early event in diet-induced obesity. <i>Clinical Science</i> , 2015, 129, 1025-1036.	1.8	46
30	Insulin stimulates laser Doppler signal by rat muscle in vivo, consistent with nutritive flow recruitment. <i>Clinical Science</i> , 2001, 100, 283-290.	1.8	45
31	Muscle Contraction, but Not Insulin, Increases Microvascular Blood Volume in the Presence of Free Fatty Acid-induced Insulin Resistance. <i>Diabetes</i> , 2009, 58, 2457-2463.	0.3	45
32	Insulin transport into the brain. <i>American Journal of Physiology - Cell Physiology</i> , 2018, 315, C125-C136.	2.1	45
33	Muscle Perfusion. <i>Diabetes</i> , 2012, 61, 2661-2668.	0.3	43
34	Exercise Intensity Modulates Glucose-Stimulated Insulin Secretion when Adjusted for Adipose, Liver and Skeletal Muscle Insulin Resistance. <i>PLoS ONE</i> , 2016, 11, e0154063.	1.1	39
35	Pathways for insulin access to the brain: the role of the microvascular endothelial cell. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 311, H1132-H1138.	1.5	38
36	Salsalate Attenuates Free Fatty Acid-induced Microvascular and Metabolic Insulin Resistance in Humans. <i>Diabetes Care</i> , 2011, 34, 1634-1638.	4.3	37

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37	Globular Adiponectin Enhances Muscle Insulin Action via Microvascular Recruitment and Increased Insulin Delivery. <i>Circulation Research</i> , 2013, 112, 1263-1271.	2.0	36
38	The Effect of Exercise Intensity on Endothelial Function in Physically Inactive Lean and Obese Adults. <i>PLoS ONE</i> , 2014, 9, e85450.	1.1	36
39	Muscle microvasculature's structural and functional specializations facilitate muscle metabolism. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016, 310, E379-E387.	1.8	35
40	Globular adiponectin ameliorates metabolic insulin resistance via AMPK α -mediated restoration of microvascular insulin responses. <i>Journal of Physiology</i> , 2015, 593, 4067-4079.	1.3	33
41	Liraglutide prevents microvascular insulin resistance and preserves muscle capillary density in high-fat diet-fed rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016, 311, E640-E648.	1.8	33
42	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. <i>Diabetes Care</i> , 2020, 43, 634-642.	4.3	30
43	Modulating Vascular Hemodynamics With an Alpha Globin Mimetic Peptide (Hb $\hat{1}\pm$ X). <i>Hypertension</i> , 2016, 68, 1494-1503.	1.3	26
44	Exercise resistance across the prediabetes phenotypes: Impact on insulin sensitivity and substrate metabolism. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2016, 17, 81-90.	2.6	25
45	Independent tissue contributors to obesity-associated insulin resistance. <i>JCI Insight</i> , 2017, 2, .	2.3	25
46	Insulin and glucose suppress hepatic glycogenolysis by distinct enzymatic mechanisms. <i>Metabolism: Clinical and Experimental</i> , 1993, 42, 1546-1551.	1.5	24
47	Physiological Hyperinsulinemia Stimulates p70 ^{S6k} Phosphorylation in Human Skeletal Muscle ¹ . <i>Journal of Clinical Endocrinology and Metabolism</i> , 2000, 85, 4900-4904.	1.8	21
48	Heterogeneity of laser Doppler flowmetry in perfused muscle indicative of nutritive and nonnutritive flow. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001, 280, H1324-H1333.	1.5	21
49	Diabetes pathogenesis and management: the endothelium comes of age. <i>Journal of Molecular Cell Biology</i> , 2021, 13, 500-512.	1.5	21
50	Endothelial Cells Actively Concentrate Insulin During its Transendothelial Transport. <i>Microcirculation</i> , 2013, 20, 434-439.	1.0	20
51	Early Microvascular Recruitment Modulates Subsequent Insulin-Mediated Skeletal Muscle Glucose Metabolism During Lipid Infusion. <i>Diabetes Care</i> , 2013, 36, 104-110.	4.3	19
52	Evidence supports prediabetes treatment. <i>Science</i> , 2019, 364, 341-342.	6.0	18
53	Brain Endothelial Cells Regulate Glucagon-Like Peptide 1 Entry Into the Brain via a Receptor-Mediated Process. <i>Frontiers in Physiology</i> , 2020, 11, 555.	1.3	16
54	Endothelial function following glucose ingestion in adults with prediabetes: Role of exercise intensity. <i>Obesity</i> , 2016, 24, 1515-1521.	1.5	12

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55	Evidence for congruent impairment in micro and macrovascular function in type 1 diabetes. PLoS ONE, 2017, 12, e0187525.	1.1	12
56	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
57	The Vascular Contribution to Insulin Resistance: Promise, Proof, and Pitfalls. Diabetes, 2012, 61, 3063-3065.	0.3	10
58	Early Microvascular Dysfunction: Is the Vasa Vasorum a "Missing Link" in Insulin Resistance and Atherosclerosis. International Journal of Molecular Sciences, 2021, 22, 7574.	1.8	10
59	CrossTalk proposal: <i>De novo</i> capillary recruitment in healthy muscle is necessary. Journal of Physiology, 2014, 592, 5129-5131.	1.3	9
60	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
61	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
62	The Insulin Receptor Mediates Insulin's Early Plasma Clearance by Liver, Muscle, and Kidney. Biomedicines, 2021, 9, 37.	1.4	9
63	Metformin improves skeletal muscle microvascular insulin resistance in metabolic syndrome. American Journal of Physiology - Endocrinology and Metabolism, 2022, 322, E173-E180.	1.8	9
64	Hyperglycemia does not inhibit insulin'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
65	Insulin's effect on glucose production: direct or indirect?. Journal of Clinical Investigation, 2003, 111, 434-435.	3.9	7
66	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
67	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
68	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
69	Insulin-mediated muscle microvascular perfusion and its phenotypic predictors in humans. Scientific Reports, 2021, 11, 11433.	1.6	4
70	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
71	Utilizing Standardized Patients to Enhance Health Literacy Communication Skills. MedEdPORTAL: the Journal of Teaching and Learning Resources, 0, , .	0.5	3
72	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

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73	Rebuttal from Eugene J. Barrett, Michelle A. Keske, Stephen Rattigan and Etto C. Eringa. Journal of Physiology, 2014, 592, 5137-5138.	1.3	1
74	Which Combination Therapy Is Superior at Reducing Cardiovascular Events in Diabetic Patients with Hypertension?. Current Diabetes Reports, 2011, 11, 151-153.	1.7	0
75	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