Frank A Dinenno

List of Publications by Year
in descending order

92 papers	6,317 citations	76326 40 h-index	64796 79 g-index
92 all docs	92 docs citations	92 times ranked	4410 citing authors

#	Article	IF	Citations
1	Aging, Habitual Exercise, and Dynamic Arterial Compliance. Circulation, 2000, 102, 1270-1275.	1.6	933
2	Regular Aerobic Exercise Prevents and Restores Age-Related Declines in Endothelium-Dependent Vasodilation in Healthy Men. Circulation, 2000, 102, 1351-1357.	1.6	760
3	Limb Blood Flow and Vascular Conductance Are Reduced With Age in Healthy Humans. Circulation, 1999, 100, 164-170.	1.6	269
4	Regular endurance exercise induces expansive arterial remodelling in the trained limbs of healthy men. Journal of Physiology, 2001, 534, 287-295.	2.9	200
5	Age-associated changes in cardiovagal baroreflex sensitivity are related to central arterial compliance. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 281, H284-H289.	3.2	188
6	Central Arterial Compliance Is Associated With Age- and Habitual Exerciseâ€"Related Differences in Cardiovagal Baroreflex Sensitivity. Circulation, 2001, 104, 1627-1632.	1.6	176
7	Aging and Forearm Postjunctional Î±-Adrenergic Vasoconstriction in Healthy Men. Circulation, 2002, 106, 1349-1354.	1.6	157
8	Local inhibition of nitric oxide and prostaglandins independently reduces forearm exercise hyperaemia in humans. Journal of Physiology, 2004, 557, 599-611.	2.9	155
9	Regular aerobic exercise modulates ageâ€associated declines in cardiovagal baroreflex sensitivity in healthy men. Journal of Physiology, 2000, 529, 263-271.	2.9	148
10	Age-associated arterial wall thickening is related to elevations in sympathetic activity in healthy humans. American Journal of Physiology - Heart and Circulatory Physiology, 2000, 278, H1205-H1210.	3.2	142
11	Blunted Sympathetic Vasoconstriction in Contracting Skeletal Muscle of Healthy Humans: is Nitric Oxide Obligatory?. Journal of Physiology, 2003, 553, 281-292.	2.9	135
12	Reductions in basal limb blood flow and vascular conductance with human ageing: role for augmented Î±â€adrenergic vasoconstriction. Journal of Physiology, 2001, 536, 977-983.	2.9	133
13	Regular aerobic exercise and the age-related increase in carotid artery intima-media thickness in healthy men. Journal of Applied Physiology, 2002, 92, 1458-1464.	2.5	120
14	Endotheliumâ€dependent vasodilatation and exercise hyperaemia in ageing humans: impact of acute ascorbic acid administration. Journal of Physiology, 2009, 587, 1989-2003.	2.9	104
15	Carotid Artery Wall Hypertrophy With Age Is Related to Local Systolic Blood Pressure in Healthy Men. Arteriosclerosis, Thrombosis, and Vascular Biology, 2001, 21, 82-87.	2.4	101
16	Impaired modulation of sympathetic Î±-adrenergic vasoconstriction in contracting forearm muscle of ageing men. Journal of Physiology, 2005, 567, 311-321.	2.9	100
17	Ageâ€related decreases in basal limb blood flow in humans: time course, determinants and habitual exercise effects. Journal of Physiology, 2001, 531, 573-579.	2.9	98
18	Mechanical influences on skeletal muscle vascular tone in humans: insight into contraction-induced rapid vasodilatation. Journal of Physiology, 2007, 583, 861-874.	2.9	95

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19	Impaired Skeletal Muscle Blood Flow Control With Advancing Age in Humans. Circulation Research, 2012, 111, 220-230.	4.5	90
20	Graded sympatholytic effect of exogenous ATP on postjunctional Î±â€adrenergic vasoconstriction in the human forearm: implications for vascular control in contracting muscle. Journal of Physiology, 2008, 586, 4305-4316.	2.9	86
21	Reactive Hyperemia Occurs Via Activation of Inwardly Rectifying Potassium Channels and Na ⁺ /K ⁺ -ATPase in Humans. Circulation Research, 2013, 113, 1023-1032.	4.5	85
22	Nitric oxide, but not vasodilating prostaglandins, contributes to the improvement of exercise hyperemia via ascorbic acid in healthy older adults. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 299, H1633-H1641.	3.2	84
23	Regulation of skeletal muscle blood flow during exercise in ageing humans. Journal of Physiology, 2016, 594, 2261-2273.	2.9	82
24	Â1- and Â2-adrenergic vasoconstriction is blunted in contracting human muscle. Journal of Physiology, 2003, 547, 971-976.	2.9	80
25	Combined NO and PG inhibition augments Î±-adrenergic vasoconstriction in contracting human skeletal muscle. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 287, H2576-H2584.	3.2	79
26	Smaller age-associated reductions in leg venous compliance in endurance exercise-trained men. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 281, H1267-H1273.	3.2	72
27	Ageing and leg postjunctional Î±-adrenergic vasoconstrictor responsiveness in healthy men. Journal of Physiology, 2007, 582, 63-71.	2.9	70
28	Mechanisms of rapid vasodilation after a brief contraction in human skeletal muscle. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 305, H29-H40.	3.2	64
29	Effects of chronic sympathectomy on vascular function in the human forearm. Journal of Applied Physiology, 2002, 92, 2019-2025.	2.5	63
30	Î±â€Adrenergic Vascular Responsiveness during Postexercise Hypotension in Humans. Journal of Physiology, 2003, 550, 279-286.	2.9	62
31	Î±-Adrenergic Control of Skeletal Muscle Circulation at Rest and During Exercise in Aging Humans. Microcirculation, 2006, 13, 329-341.	1.8	62
32	Postâ€junctional Î±â€adrenoceptors and basal limb vascular tone in healthy men. Journal of Physiology, 2002, 540, 1103-1110.	2.9	59
33	ATPâ€mediated vasodilatation occurs via activation of inwardly rectifying potassium channels in humans. Journal of Physiology, 2012, 590, 5349-5359.	2.9	59
34	Selective Î±2-adrenergic properties of dexmedetomidine over clonidine in the human forearm. Journal of Applied Physiology, 2005, 99, 587-592.	2.5	58
35	Failure of Systemic Hypoxia to Blunt Î±â€Adrenergic Vasoconstriction in the Human Forearm. Journal of Physiology, 2003, 549, 985-994.	2.9	54
36	Mechanisms of ATP-mediated vasodilation in humans: modest role for nitric oxide and vasodilating prostaglandins. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 301, H1302-H1310.	3.2	54

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37	Skeletal muscle vasodilation during systemic hypoxia in humans. Journal of Applied Physiology, 2016, 120, 216-225.	2.5	52
38	Evidence for impaired skeletal muscle contraction-induced rapid vasodilation in aging humans. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 294, H1963-H1970.	3.2	50
39	Combined inhibition of nitric oxide and vasodilating prostaglandins abolishes forearm vasodilatation to systemic hypoxia in healthy humans. Journal of Physiology, 2011, 589, 1979-1990.	2.9	49
40	Augmented skeletal muscle hyperaemia during hypoxic exercise in humans is blunted by combined inhibition of nitric oxide and vasodilating prostaglandins. Journal of Physiology, 2011, 589, 3671-3683.	2.9	48
41	Vasodilatory responsiveness to adenosine triphosphate in ageing humans. Journal of Physiology, 2010, 588, 4017-4027.	2.9	41
42	Exogenous NO administration and Î±-adrenergic vasoconstriction in human limbs. Journal of Applied Physiology, 2003, 95, 2370-2374.	2.5	40
43	Endotheliumâ€dependent vasodilatory signalling modulates Î±₁â€adrenergic vasoconstriction in contracting skeletal muscle of humans. Journal of Physiology, 2016, 594, 7435-7453.	2.9	40
44	Acute ingestion of dietary nitrate increases muscle blood flow via local vasodilation during handgrip exercise in young adults. Physiological Reports, 2018, 6, e13572.	1.7	40
45	KIR channel activation contributes to onset and steady-state exercise hyperemia in humans. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 307, H782-H791.	3.2	38
46	Impact of combined NO and PG blockade on rapid vasodilation in a forearm mild-to-moderate exercise transition in humans. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 288, H214-H220.	3.2	37
47	Modulation of postjunctional Î±â€adrenergic vasoconstriction during exercise and exogenous ATP infusions in ageing humans. Journal of Physiology, 2011, 589, 2641-2653.	2.9	37
48	Age-related reductions in appendicular skeletal muscle mass: association with habitual aerobic exercise status. Clinical Physiology and Functional Imaging, 2002, 22, 169-172.	1.2	35
49	Sympatholytic effect of intravascular ATP is independent of nitric oxide, prostaglandins, Na⁺/K⁺â€ATPase and K_{IR} channels in humans. Journal of Physiology, 2017, 595, 5175-5190.	2.9	35
50	Hemodynamic sequelae of age-related increases in arterial stiffness in healthy women. American Journal of Cardiology, 1998, 82, 1152-1155.	1.6	31
51	Sources of intravascular ATP during exercise in humans: critical role for skeletal muscle perfusion. Experimental Physiology, 2013, 98, 988-998.	2.0	30
52	Rapid Report. Journal of Physiology, 2003, 547, 971-976.	2.9	29
53	Robust Internal Elastic Lamina Fenestration in Skeletal Muscle Arteries. PLoS ONE, 2013, 8, e54849.	2.5	26
54	Role of Î±â€adrenergic vasoconstriction in regulating skeletal muscle blood flow and vascular conductance during forearm exercise in ageing humans. Journal of Physiology, 2014, 592, 4775-4788.	2.9	25

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55	Acute ascorbic acid ingestion increases skeletal muscle blood flow and oxygen consumption via local vasodilation during graded handgrip exercise in older adults. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H360-H368.	3.2	25
56	Reduced deformability contributes to impaired deoxygenationâ€induced ATP release from red blood cells of older adult humans. Journal of Physiology, 2019, 597, 4503-4519.	2.9	25
57	Effects of midodrine on exercise-induced hypotension and blood pressure recovery in autonomic failure. Journal of Applied Physiology, 2004, 97, 1978-1984.	2.5	24
58	Reductions in central arterial compliance with age are related to sympathetic vasoconstrictor nerve activity in healthy men. Hypertension Research, 2017, 40, 493-495.	2.7	24
59	Mechanical effects of muscle contraction increase intravascular ATP draining quiescent and active skeletal muscle in humans. Journal of Applied Physiology, 2013, 114, 1085-1093.	2.5	23
60	Intravascular ATP and the Regulation of Blood Flow and Oxygen Delivery in Humans. Exercise and Sport Sciences Reviews, 2015, 43, 5-13.	3.0	23
61	Amplification of endotheliumâ€dependent vasodilatation in contracting human skeletal muscle: role of K_{IR} channels. Journal of Physiology, 2019, 597, 1321-1335.	2.9	21
62	Contracting human skeletal muscle maintains the ability to blunt Î±₁â€adrenergic vasoconstriction during K_{IR} channel and Na⁺/K⁺â€ATPase inhibition. Journal of Physiology, 2015, 593, 2735-2751.	2.9	20
63	Impaired peripheral vasodilation during graded systemic hypoxia in healthy older adults: role of the sympathoadrenal system. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 312, H832-H841.	3.2	17
64	Acute differences in pulse wave velocity, augmentation index, and central pulse pressure following controlled exposures to cookstove air pollution in the Subclinical Tests of Volunteers Exposed to Smoke (SToVES) study. Environmental Research, 2020, 180, 108831.	7.5	16
65	Mechanical effects of muscle contraction do not blunt sympathetic vasoconstriction in humans. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 289, H1610-H1617.	3.2	15
66	Muscle contraction duration and fibre recruitment influence blood flow and oxygen consumption independent of contractile work during steadyâ€state exercise in humans. Experimental Physiology, 2012, 97, 750-761.	2.0	15
67	Liberation of ATP secondary to hemolysis is not mutually exclusive of regulated export. Blood, 2015, 125, 1844-1845.	1.4	14
68	Escape, lysis, and feedback: endothelial modulation of sympathetic vasoconstriction. Current Opinion in Pharmacology, 2019, 45, 81-86.	3.5	11
69	Prolonged adenosine triphosphate infusion and exercise hyperemia in humans. Journal of Applied Physiology, 2016, 121, 629-635.	2.5	9
70	Augmentation of endotheliumâ€dependent vasodilatory signalling improves functional sympatholysis in contracting muscle of older adults. Journal of Physiology, 2020, 598, 2323-2336.	2.9	9
71	Reduced forearm Î±1-adrenergic vasoconstriction is associated with enhanced heart rate fluctuations in humans. Journal of Applied Physiology, 2006, 100, 792-799.	2.5	8
72	Inhibition of Na⁺/K⁺â€ATPase and K_{IR} channels abolishes hypoxic hyperaemia in resting but not contracting skeletal muscle of humans. Journal of Physiology, 2018, 596, 3371-3389.	2.9	8

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73	Hypoxic regulation of blood flow in humans. Alpha-adrenergic receptors and functional sympatholysis in skeletal muscle. Advances in Experimental Medicine and Biology, 2003, 543, 237-48.	1.6	8
74	Elevated extracellular potassium prior to muscle contraction reduces onset and steady-state exercise hyperemia in humans. Journal of Applied Physiology, 2018, 125, 615-623.	2.5	7
75	K IR channel activation links local vasodilatation with muscle fibre recruitment during exercise in humans. Journal of Physiology, 2020, 598, 2621-2636.	2.9	5
76	Age-Related Increase in Femoral Intima-Media Thickness in Healthy Humans. Arteriosclerosis, Thrombosis, and Vascular Biology, 2000, 20, 2172-2172.	2.4	4
77	Comprehensive assessment of cardiovascular structure and function and disease risk in middle-aged ultra-endurance athletes. Atherosclerosis, 2021, 320, 105-111.	0.8	4
78	Self-selected fluid volume and flavor strength does not alter fluid intake, body mass loss, or physiological strain during moderate-intensity exercise in the heat. Journal of Thermal Biology, 2020, 89, 102575.	2.5	3
79	Carbohydrate ingestion attenuates cognitive dysfunction following long-duration exercise in the heat in humans. Journal of Thermal Biology, 2021, 100, 103026.	2.5	3
80	Rhoâ€kinase inhibition improves haemodynamic responses and circulating ATP during hypoxia and moderate intensity handgrip exercise in healthy older adults. Journal of Physiology, 2022, 600, 3265-3285.	2.9	3
81	K_{IR} channels mediate vasodilation but not sympatholysis. Channels, 2017, 11, 495-496.	2.8	2
82	Rapidâ€onset vasodilator responses to exercise in humans: Effect of increased baseline blood flow. Experimental Physiology, 2020, 105, 88-95.	2.0	2
83	Impaired hypoxic vasodilation in healthy older adults: role for altered sympathoâ€adrenal control of vascular tone. FASEB Journal, 2013, 27, 1119.1.	0.5	2
84	The Age-Old Tale of Skeletal Muscle Vasodilation: New Ideas Regarding Erythrocyte Dysfunction and Intravascular ATP in Human Physiology. Circulation Research, 2012, 111, e203-4.	4.5	1
85	Vascular regulation via K_{IR} channels and Na⁺/K⁺-ATPase. Channels, 2015, 9, 171-172.	2.8	1
86	Sustained exercise hyperemia during prolonged adenosine infusion in humans. Physiological Reports, 2019, 7, e14009.	1.7	1
87	ATP and acetylcholine interact to modulate vascular tone and Î±₁-adrenergic vasoconstriction in humans. Journal of Applied Physiology, 2021, 131, 566-574.	2.5	1
88	Influence of contractile work and muscle fiber recruitment on skeletal muscle blood flow in humans. FASEB Journal, 2010, 24, lb645.	0.5	1
89	Mechanical Deformation of Skeletal Muscle Increases Circulating ATP in Humans. Medicine and Science in Sports and Exercise, 2010, 42, 42.	0.4	1
90	Augmentation of Endotheliumâ€dependent Vasodilation during Mild Exercise Blunts Postjunctional Î±â€adrenergic Vasoconstriction. FASEB Journal, 2013, 27, 924.9.	0.5	1

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91	Effects of Aging on Wholeâ€Leg Î±â€Adrenergic Vasoconstrictor Responsiveness in Healthy Men. FASEB Journal, 2007, 21, A565.	0.5	0
92	Sources of Intravascular ATP during Exercise in Man: Critical Role for Skeletal Muscle Perfusion. FASEB Journal, 2013, 27, 710.6.	0.5	0