

Frank A Dinunno

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90
papers

5,512
citations

39
h-index

74
g-index

92
ext. papers

5,882
ext. citations

4.8
avg, IF

5.49
L-index

#	Paper	IF	Citations
90	Aging, habitual exercise, and dynamic arterial compliance. <i>Circulation</i> , 2000 , 102, 1270-5	16.7	824
89	Regular aerobic exercise prevents and restores age-related declines in endothelium-dependent vasodilation in healthy men. <i>Circulation</i> , 2000 , 102, 1351-7	16.7	655
88	Limb blood flow and vascular conductance are reduced with age in healthy humans: relation to elevations in sympathetic nerve activity and declines in oxygen demand. <i>Circulation</i> , 1999 , 100, 164-70	16.7	233
87	Regular endurance exercise induces expansive arterial remodelling in the trained limbs of healthy men. <i>Journal of Physiology</i> , 2001 , 534, 287-95	3.9	172
86	Central arterial compliance is associated with age- and habitual exercise-related differences in cardiovagal baroreflex sensitivity. <i>Circulation</i> , 2001 , 104, 1627-32	16.7	155
85	Age-associated changes in cardiovagal baroreflex sensitivity are related to central arterial compliance. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 281, H284-9	5.2	155
84	Aging and forearm postjunctional alpha-adrenergic vasoconstriction in healthy men. <i>Circulation</i> , 2002 , 106, 1349-54	16.7	144
83	Local inhibition of nitric oxide and prostaglandins independently reduces forearm exercise hyperaemia in humans. <i>Journal of Physiology</i> , 2004 , 557, 599-611	3.9	142
82	Blunted sympathetic vasoconstriction in contracting skeletal muscle of healthy humans: is nitric oxide obligatory?. <i>Journal of Physiology</i> , 2003 , 553, 281-92	3.9	128
81	Age-associated arterial wall thickening is related to elevations in sympathetic activity in healthy humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000 , 278, H1205-10	5.2	124
80	Regular aerobic exercise modulates age-associated declines in cardiovagal baroreflex sensitivity in healthy men. <i>Journal of Physiology</i> , 2000 , 529 Pt 1, 263-71	3.9	123
79	Reductions in basal limb blood flow and vascular conductance with human ageing: role for augmented alpha-adrenergic vasoconstriction. <i>Journal of Physiology</i> , 2001 , 536, 977-83	3.9	120
78	Regular aerobic exercise and the age-related increase in carotid artery intima-media thickness in healthy men. <i>Journal of Applied Physiology</i> , 2002 , 92, 1458-64	3.7	111
77	Endothelium-dependent vasodilatation and exercise hyperaemia in ageing humans: impact of acute ascorbic acid administration. <i>Journal of Physiology</i> , 2009 , 587, 1989-2003	3.9	98
76	Impaired modulation of sympathetic alpha-adrenergic vasoconstriction in contracting forearm muscle of ageing men. <i>Journal of Physiology</i> , 2005 , 567, 311-21	3.9	94
75	Carotid artery wall hypertrophy with age is related to local systolic blood pressure in healthy men. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2001 , 21, 82-7	9.4	94
74	Age-related decreases in basal limb blood flow in humans: time course, determinants and habitual exercise effects. <i>Journal of Physiology</i> , 2001 , 531, 573-9	3.9	88

73	Mechanical influences on skeletal muscle vascular tone in humans: insight into contraction-induced rapid vasodilatation. <i>Journal of Physiology</i> , 2007 , 583, 861-74	3.9	87
72	Graded sympatholytic effect of exogenous ATP on postjunctional alpha-adrenergic vasoconstriction in the human forearm: implications for vascular control in contracting muscle. <i>Journal of Physiology</i> , 2008 , 586, 4305-16	3.9	80
71	Impaired skeletal muscle blood flow control with advancing age in humans: attenuated ATP release and local vasodilation during erythrocyte deoxygenation. <i>Circulation Research</i> , 2012 , 111, 220-30	15.7	79
70	alpha1- and alpha2-adrenergic vasoconstriction is blunted in contracting human muscle. <i>Journal of Physiology</i> , 2003 , 547, 971-6	3.9	77
69	Nitric oxide, but not vasodilating prostaglandins, contributes to the improvement of exercise hyperemia via ascorbic acid in healthy older adults. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010 , 299, H1633-41	5.2	75
68	Combined NO and PG inhibition augments alpha-adrenergic vasoconstriction in contracting human skeletal muscle. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004 , 287, H2576-84	5.2	75
67	Ageing and leg postjunctional alpha-adrenergic vasoconstrictor responsiveness in healthy men. <i>Journal of Physiology</i> , 2007 , 582, 63-71	3.9	64
66	Reactive hyperemia occurs via activation of inwardly rectifying potassium channels and Na ⁺ /K ⁺ -ATPase in humans. <i>Circulation Research</i> , 2013 , 113, 1023-32	15.7	62
65	Mechanisms of rapid vasodilation after a brief contraction in human skeletal muscle. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013 , 305, H29-40	5.2	61
64	Smaller age-associated reductions in leg venous compliance in endurance exercise-trained men. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 281, H1267-73	5.2	61
63	Alpha-adrenergic control of skeletal muscle circulation at rest and during exercise in aging humans. <i>Microcirculation</i> , 2006 , 13, 329-41	2.9	58
62	Effects of chronic sympathectomy on vascular function in the human forearm. <i>Journal of Applied Physiology</i> , 2002 , 92, 2019-25	3.7	58
61	Post-junctional alpha-adrenoceptors and basal limb vascular tone in healthy men. <i>Journal of Physiology</i> , 2002 , 540, 1103-10	3.9	53
60	Alpha-adrenergic vascular responsiveness during postexercise hypotension in humans. <i>Journal of Physiology</i> , 2003 , 550, 279-86	3.9	53
59	Selective alpha2-adrenergic properties of dexmedetomidine over clonidine in the human forearm. <i>Journal of Applied Physiology</i> , 2005 , 99, 587-92	3.7	51
58	Regulation of skeletal muscle blood flow during exercise in ageing humans. <i>Journal of Physiology</i> , 2016 , 594, 2261-73	3.9	51
57	ATP-mediated vasodilatation occurs via activation of inwardly rectifying potassium channels in humans. <i>Journal of Physiology</i> , 2012 , 590, 5349-59	3.9	50
56	Mechanisms of ATP-mediated vasodilation in humans: modest role for nitric oxide and vasodilating prostaglandins. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011 , 301, H1302-10	5.2	50

55	Failure of systemic hypoxia to blunt alpha-adrenergic vasoconstriction in the human forearm. <i>Journal of Physiology</i> , 2003 , 549, 985-94	3.9	48
54	Evidence for impaired skeletal muscle contraction-induced rapid vasodilation in aging humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008 , 294, H1963-70	5.2	47
53	Combined inhibition of nitric oxide and vasodilating prostaglandins abolishes forearm vasodilatation to systemic hypoxia in healthy humans. <i>Journal of Physiology</i> , 2011 , 589, 1979-90	3.9	43
52	Augmented skeletal muscle hyperaemia during hypoxic exercise in humans is blunted by combined inhibition of nitric oxide and vasodilating prostaglandins. <i>Journal of Physiology</i> , 2011 , 589, 3671-83	3.9	42
51	Exogenous NO administration and alpha-adrenergic vasoconstriction in human limbs. <i>Journal of Applied Physiology</i> , 2003 , 95, 2370-4	3.7	38
50	KIR channel activation contributes to onset and steady-state exercise hyperemia in humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014 , 307, H782-91	5.2	37
49	Vasodilatory responsiveness to adenosine triphosphate in ageing humans. <i>Journal of Physiology</i> , 2010 , 588, 4017-27	3.9	37
48	Modulation of postjunctional β adrenergic vasoconstriction during exercise and exogenous ATP infusions in ageing humans. <i>Journal of Physiology</i> , 2011 , 589, 2641-53	3.9	36
47	Skeletal muscle vasodilation during systemic hypoxia in humans. <i>Journal of Applied Physiology</i> , 2016 , 120, 216-25	3.7	35
46	Endothelium-dependent vasodilatory signalling modulates β adrenergic vasoconstriction in contracting skeletal muscle of humans. <i>Journal of Physiology</i> , 2016 , 594, 7435-7453	3.9	34
45	Impact of combined NO and PG blockade on rapid vasodilation in a forearm mild-to-moderate exercise transition in humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 288, H214-20	5.2	33
44	Age-related reductions in appendicular skeletal muscle mass: association with habitual aerobic exercise status. <i>Clinical Physiology and Functional Imaging</i> , 2002 , 22, 169-72	2.4	30
43	Hemodynamic sequelae of age-related increases in arterial stiffness in healthy women. <i>American Journal of Cardiology</i> , 1998 , 82, 1152-5, A10	3	29
42	Acute ingestion of dietary nitrate increases muscle blood flow via local vasodilation during handgrip exercise in young adults. <i>Physiological Reports</i> , 2018 , 6, e13572	2.6	28
41	Sources of intravascular ATP during exercise in humans: critical role for skeletal muscle perfusion. <i>Experimental Physiology</i> , 2013 , 98, 988-98	2.4	26
40	Sympatholytic effect of intravascular ATP is independent of nitric oxide, prostaglandins, Na ⁺ /K ⁺ -ATPase and K channels in humans. <i>Journal of Physiology</i> , 2017 , 595, 5175-5190	3.9	25
39	Robust internal elastic lamina fenestration in skeletal muscle arteries. <i>PLoS ONE</i> , 2013 , 8, e54849	3.7	24
38	Effects of midodrine on exercise-induced hypotension and blood pressure recovery in autonomic failure. <i>Journal of Applied Physiology</i> , 2004 , 97, 1978-84	3.7	22

37	Acute ascorbic acid ingestion increases skeletal muscle blood flow and oxygen consumption via local vasodilation during graded handgrip exercise in older adults. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015 , 309, H360-8	5.2	21
36	Intravascular ATP and the regulation of blood flow and oxygen delivery in humans. <i>Exercise and Sport Sciences Reviews</i> , 2015 , 43, 5-13	6.7	20
35	Role of β -adrenergic vasoconstriction in regulating skeletal muscle blood flow and vascular conductance during forearm exercise in ageing humans. <i>Journal of Physiology</i> , 2014 , 592, 4775-88	3.9	20
34	Mechanical effects of muscle contraction increase intravascular ATP draining quiescent and active skeletal muscle in humans. <i>Journal of Applied Physiology</i> , 2013 , 114, 1085-93	3.7	20
33	Reductions in central arterial compliance with age are related to sympathetic vasoconstrictor nerve activity in healthy men. <i>Hypertension Research</i> , 2017 , 40, 493-495	4.7	18
32	Contracting human skeletal muscle maintains the ability to blunt β -adrenergic vasoconstriction during KIR channel and Na ⁽⁺⁾ /K ⁽⁺⁾ -ATPase inhibition. <i>Journal of Physiology</i> , 2015 , 593, 2735-51	3.9	18
31	Amplification of endothelium-dependent vasodilatation in contracting human skeletal muscle: role of K channels. <i>Journal of Physiology</i> , 2019 , 597, 1321-1335	3.9	16
30	Reduced deformability contributes to impaired deoxygenation-induced ATP release from red blood cells of older adult humans. <i>Journal of Physiology</i> , 2019 , 597, 4503-4519	3.9	15
29	Muscle contraction duration and fibre recruitment influence blood flow and oxygen consumption independent of contractile work during steady-state exercise in humans. <i>Experimental Physiology</i> , 2012 , 97, 750-61	2.4	15
28	Rapid Report. <i>Journal of Physiology</i> , 2003 , 547, 971-976	3.9	15
27	Mechanical effects of muscle contraction do not blunt sympathetic vasoconstriction in humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 289, H1610-7	5.2	15
26	Impaired peripheral vasodilation during graded systemic hypoxia in healthy older adults: role of the sympathoadrenal system. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017 , 312, H832-H841	5.2	14
25	Liberation of ATP secondary to hemolysis is not mutually exclusive of regulated export. <i>Blood</i> , 2015 , 125, 1844-5	2.2	14
24	Prolonged adenosine triphosphate infusion and exercise hyperemia in humans. <i>Journal of Applied Physiology</i> , 2016 , 121, 629-35	3.7	8
23	Reduced forearm α 1-adrenergic vasoconstriction is associated with enhanced heart rate fluctuations in humans. <i>Journal of Applied Physiology</i> , 2006 , 100, 792-9	3.7	8
22	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. <i>Environmental Research</i> , 2020 , 180, 108831	7.9	8
21	Inhibition of Na ⁽⁺⁾ /K ⁽⁺⁾ -ATPase and K channels abolishes hypoxic hyperaemia in resting but not contracting skeletal muscle of humans. <i>Journal of Physiology</i> , 2018 , 596, 3371-3389	3.9	7
20	Augmentation of endothelium-dependent vasodilatory signalling improves functional sympatholysis in contracting muscle of older adults. <i>Journal of Physiology</i> , 2020 , 598, 2323-2336	3.9	6

19	Elevated extracellular potassium prior to muscle contraction reduces onset and steady-state exercise hyperemia in humans. <i>Journal of Applied Physiology</i> , 2018 , 125, 615-623	3.7	6
18	Escape, lysis, and feedback: endothelial modulation of sympathetic vasoconstriction. <i>Current Opinion in Pharmacology</i> , 2019 , 45, 81-86	5.1	5
17	Hypoxic regulation of blood flow in humans. Alpha-adrenergic receptors and functional sympatholysis in skeletal muscle. <i>Advances in Experimental Medicine and Biology</i> , 2003 , 543, 237-48	3.6	5
16	Age-related increase in femoral intima-media thickness in healthy humans. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2000 , 20, 2172	9.4	4
15	K channel activation links local vasodilatation with muscle fibre recruitment during exercise in humans. <i>Journal of Physiology</i> , 2020 , 598, 2621-2636	3.9	3
14	K channels mediate vasodilation but not sympatholysis. <i>Channels</i> , 2017 , 11, 495-496	3	2
13	Impaired hypoxic vasodilation in healthy older adults: role for altered sympatho-adrenal control of vascular tone. <i>FASEB Journal</i> , 2013 , 27, 1119.1	0.9	2
12	Sustained exercise hyperemia during prolonged adenosine infusion in humans. <i>Physiological Reports</i> , 2019 , 7, e14009	2.6	1
11	Vascular regulation via KIR channels and Na(+)/K(+)-ATPase. <i>Channels</i> , 2015 , 9, 171-2	3	1
10	The age-old tale of skeletal muscle vasodilation: new ideas regarding erythrocyte dysfunction and intravascular ATP in human physiology. <i>Circulation Research</i> , 2012 , 111, e203-4	15.7	1
9	Influence of contractile work and muscle fiber recruitment on skeletal muscle blood flow in humans. <i>FASEB Journal</i> , 2010 , 24, lb645	0.9	1
8	Augmentation of Endothelium-dependent Vasodilation during Mild Exercise Blunts Postjunctional Adrenergic Vasoconstriction. <i>FASEB Journal</i> , 2013 , 27, 924.9	0.9	1
7	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. <i>Journal of Thermal Biology</i> , 2020 , 89, 102575	2.9	1
6	Comprehensive assessment of cardiovascular structure and function and disease risk in middle-aged ultra-endurance athletes. <i>Atherosclerosis</i> , 2021 , 320, 105-111	3.1	1
5	ATP and acetylcholine interact to modulate vascular tone and Adrenergic vasoconstriction in humans. <i>Journal of Applied Physiology</i> , 2021 , 131, 566-574	3.7	1
4	Carbohydrate ingestion attenuates cognitive dysfunction following long-duration exercise in the heat in humans. <i>Journal of Thermal Biology</i> , 2021 , 100, 103026	2.9	0
3	Effects of Aging on Whole-Leg Adrenergic Vasoconstrictor Responsiveness in Healthy Men. <i>FASEB Journal</i> , 2007 , 21, A565	0.9	
2	Sources of Intravascular ATP during Exercise in Man: Critical Role for Skeletal Muscle Perfusion. <i>FASEB Journal</i> , 2013 , 27, 710.6	0.9	

- 1 Rapid-onset vasodilator responses to exercise in humans: Effect of increased baseline blood flow. *Experimental Physiology*, **2020**, 105, 88-95 2.4