

# Daniel Gagnon

## List of Publications by Year in descending order

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Version: 2024-02-01

92  
papers

2,330  
citations

270111

25  
h-index

274796

44  
g-index

92  
all docs

92  
docs citations

92  
times ranked

1572  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sex differences in thermoeffector responses during exercise at fixed requirements for heat loss. <i>Journal of Applied Physiology</i> , 2012, 113, 746-757.	1.2	168
2	The evaporative requirement for heat balance determines whole-body sweat rate during exercise under conditions permitting full evaporation. <i>Journal of Physiology</i> , 2013, 591, 2925-2935.	1.3	156
3	Does sex have an independent effect on thermoeffector responses during exercise in the heat?. <i>Journal of Physiology</i> , 2012, 590, 5963-5973.	1.3	153
4	Sex modulates whole-body sudomotor thermosensitivity during exercise. <i>Journal of Physiology</i> , 2011, 589, 6205-6217.	1.3	104
5	Sex differences in postsynaptic sweating and cutaneous vasodilation. <i>Journal of Applied Physiology</i> , 2013, 114, 394-401.	1.2	102
6	Direct calorimetry: a brief historical review of its use in the study of human metabolism and thermoregulation. <i>European Journal of Applied Physiology</i> , 2017, 117, 1765-1785.	1.2	87
7	Sex-related differences in evaporative heat loss: the importance of metabolic heat production. <i>European Journal of Applied Physiology</i> , 2008, 104, 821-829.	1.2	69
8	Human temperature regulation under heat stress in health, disease, and injury. <i>Physiological Reviews</i> , 2022, 102, 1907-1989.	13.1	69
9	Acute limb heating improves macro- and microvascular dilator function in the leg of aged humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 312, H89-H97.	1.5	62
10	Cold-Water Immersion and the Treatment of Hyperthermia: Using 38.6°C as a Safe Rectal Temperature Cooling Limit. <i>Journal of Athletic Training</i> , 2010, 45, 439-444.	0.9	61
11	Whole-Body Heat Exchange during Heat Acclimation and Its Decay. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 390-400.	0.2	56
12	Cognitive and perceptual responses during passive heat stress in younger and older adults. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 308, R847-R854.	0.9	51
13	Aural Canal, Esophageal, and Rectal Temperatures During Exertional Heat Stress and the Subsequent Recovery Period. <i>Journal of Athletic Training</i> , 2010, 45, 157-163.	0.9	49
14	Core temperature differences between males and females during intermittent exercise: physical considerations. <i>European Journal of Applied Physiology</i> , 2009, 105, 453-461.	1.2	48
15	Modified iodine-paper technique for the standardized determination of sweat gland activation. <i>Journal of Applied Physiology</i> , 2012, 112, 1419-1425.	1.2	43
16	Sympathetic activity during passive heat stress in healthy aged humans. <i>Journal of Physiology</i> , 2015, 593, 2225-2235.	1.3	43
17	Differences between Sexes in Rectal Cooling Rates after Exercise-Induced Hyperthermia. <i>Medicine and Science in Sports and Exercise</i> , 2009, 41, 1633-1639.	0.2	39
18	Skin blood flow measurements during heat stress: technical and analytical considerations. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2020, 318, R57-R69.	0.9	36

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19	Heat Balance and Cumulative Heat Storage during Intermittent Bouts of Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2009, 41, 588-596.	0.2	35
20	Divergent roles of plasma osmolality and the baroreflex on sweating and skin blood flow. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012, 302, R634-R642.	0.9	31
21	Nongrafted Skin Area Best Predicts Exercise Core Temperature Responses in Burned Humans. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 2224-2232.	0.2	30
22	Age Modulates Physiological Responses during Fan Use under Extreme Heat and Humidity. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 2333-2342.	0.2	30
23	Does attenuated skin blood flow lower sweat rate and the critical environmental limit for heat balance during severe heat exposure?. <i>Experimental Physiology</i> , 2017, 102, 202-213.	0.9	28
24	Sweating as a heat loss thermoeffector. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2018, 156, 211-232.	1.0	28
25	Hyperthermia Modifies the Nonthermal Contribution to Postexercise Heat Loss Responses. <i>Medicine and Science in Sports and Exercise</i> , 2008, 40, 513-522.	0.2	27
26	Plasma hyperosmolality attenuates skin sympathetic nerve activity during passive heat stress in humans. <i>Journal of Physiology</i> , 2016, 594, 497-506.	1.3	27
27	Cardiac and Thermal Strain of Elderly Adults Exposed to Extreme Heat and Humidity With and Without Electric Fan Use. <i>JAMA - Journal of the American Medical Association</i> , 2016, 316, 989.	3.8	27
28	Extreme Heat and Cardiovascular Health: What a Cardiovascular Health Professional Should Know. <i>Canadian Journal of Cardiology</i> , 2021, 37, 1828-1836.	0.8	27
29	Influence of adiposity on cooling efficiency in hyperthermic individuals. <i>European Journal of Applied Physiology</i> , 2008, 104, 67-74.	1.2	26
30	A retrospective analysis to determine if exercise training-induced thermoregulatory adaptations are mediated by increased fitness or heat acclimation. <i>Experimental Physiology</i> , 2021, 106, 282-289.	0.9	26
31	Improved neural control of body temperature following heat acclimation in humans. <i>Journal of Physiology</i> , 2020, 598, 1223-1234.	1.3	25
32	Impact of passive heat acclimation on markers of kidney function during heat stress. <i>Experimental Physiology</i> , 2021, 106, 269-281.	0.9	25
33	Heat balance and cumulative heat storage during exercise performed in the heat in physically active younger and middle-aged men. <i>European Journal of Applied Physiology</i> , 2010, 109, 81-92.	1.2	24
34	Healthy aging does not compromise the augmentation of cardiac function during heat stress. <i>Journal of Applied Physiology</i> , 2016, 121, 885-892.	1.2	24
35	Exercise-rest cycles do not alter local and whole body heat loss responses. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 300, R958-R968.	0.9	22
36	Heat acclimation improves heat exercise tolerance and heat dissipation in individuals with extensive skin grafts. <i>Journal of Applied Physiology</i> , 2015, 119, 69-76.	1.2	22

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37	Acute heat stress reduces biomarkers of endothelial activation but not macro- or microvascular dysfunction in cervical spinal cord injury. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 316, H722-H733.	1.5	22
38	Effect of Human Skin Grafts on Whole-Body Heat Loss During Exercise Heat Stress. <i>Journal of Burn Care and Research</i> , 2013, 34, e263-e270.	0.2	21
39	Local versus whole-body sweating adaptations following 14 days of traditional heat acclimation. <i>Applied Physiology, Nutrition and Metabolism</i> , 2016, 41, 816-824.	0.9	21
40	Human heat balance during postexercise recovery: separating metabolic and nonthermal effects. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 294, R1586-R1592.	0.9	19
41	Hyperthermia modifies muscle metaboreceptor and baroreceptor modulation of heat loss in humans. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012, 302, R417-R423.	0.9	19
42	Short-term exercise training does not improve whole-body heat loss when rate of metabolic heat production is considered. <i>European Journal of Applied Physiology</i> , 2010, 109, 437-446.	1.2	17
43	Folic acid ingestion improves skeletal muscle blood flow during graded handgrip and plantar flexion exercise in aged humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 313, H658-H666.	1.5	17
44	Post Junctional Sudomotor and Cutaneous Vascular Responses in Noninjured Skin Following Heat Acclimation in Burn Survivors. <i>Journal of Burn Care and Research</i> , 2017, 38, e284-e292.	0.2	16
45	Hemostatic responses to exercise, dehydration, and simulated bleeding in heat-stressed humans. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2019, 316, R145-R156.	0.9	16
46	The Effect of Passive Heat Stress and Exercise-Induced Dehydration on the Compensatory Reserve During Simulated Hemorrhage. <i>Shock</i> , 2016, 46, 74-82.	1.0	15
47	The biophysical and physiological basis for mitigated elevations in heart rate with electric fan use in extreme heat and humidity. <i>International Journal of Biometeorology</i> , 2017, 61, 313-323.	1.3	14
48	Acute Vascular Benefits of Finnish Sauna Bathing in Patients With Stable Coronary Artery Disease. <i>Canadian Journal of Cardiology</i> , 2021, 37, 493-499.	0.8	14
49	Mean arterial pressure following prolonged exercise in the heat: influence of training status and fluid replacement. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2012, 22, e99-e107.	1.3	13
50	Is there evidence for nonthermal modulation of whole body heat loss during intermittent exercise?. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2010, 299, R119-R128.	0.9	11
51	Heat stress attenuates the increase in arterial blood pressure during isometric handgrip exercise. <i>European Journal of Applied Physiology</i> , 2013, 113, 183-190.	1.2	11
52	Do metaboreceptors alter heat loss responses following dynamic exercise?. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 306, R82-R89.	0.9	11
53	Active and passive heat stress similarly compromise tolerance to a simulated hemorrhagic challenge. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 307, R822-R827.	0.9	11
54	Fluid restriction during exercise in the heat reduces tolerance to progressive central hypovolaemia. <i>Experimental Physiology</i> , 2015, 100, 926-934.	0.9	11

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55	Baroreceptor unloading does not limit forearm sweat rate during severe passive heat stress. <i>Journal of Applied Physiology</i> , 2015, 118, 449-454.	1.2	11
56	Volume loading augments cutaneous vasodilatation and cardiac output of heat stressed older adults. <i>Journal of Physiology</i> , 2017, 595, 6489-6498.	1.3	11
57	Acute effect of Finnish sauna bathing on brachial artery flow-mediated dilation and reactive hyperemia in healthy middle-aged and older adults. <i>Physiological Reports</i> , 2019, 7, e14166.	0.7	11
58	Cardiovascular control during heat stress in older adults: time for an update. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 320, H411-H416.	1.5	11
59	Increased Circulating Levels of Neutrophil Extracellular Traps During Cardiopulmonary Bypass. <i>CJC Open</i> , 2020, 2, 39-48.	0.7	10
60	Integrative crosstalk between hypoxia and the cold: Old data and new opportunities. <i>Experimental Physiology</i> , 2021, 106, 350-358.	0.9	10
61	Influence of nonthermal baroreceptor modulation of heat loss responses during uncompensable heat stress. <i>European Journal of Applied Physiology</i> , 2010, 108, 541-548.	1.2	9
62	Adenosine receptor inhibition attenuates the decrease in cutaneous vascular conductance during whole-body cooling from hyperthermia. <i>Experimental Physiology</i> , 2014, 99, 196-204.	0.9	9
63	Electric fan use during heat waves: Turn off for the elderly?. <i>Temperature</i> , 2017, 4, 104-106.	1.7	9
64	Cardiac function during heat stress: impact of short-term passive heat acclimation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 319, H753-H764.	1.5	9
65	Folic acid supplementation does not attenuate thermoregulatory or cardiovascular strain of older adults exposed to extreme heat and humidity. <i>Experimental Physiology</i> , 2018, 103, 1123-1131.	0.9	8
66	Can supine recovery mitigate the exercise intensity dependent attenuation of post-exercise heat loss responses?. <i>Applied Physiology, Nutrition and Metabolism</i> , 2008, 33, 682-689.	0.9	7
67	Forehead versus forearm skin vascular responses at presyncope in humans. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 307, R908-R913.	0.9	7
68	Revisiting the evaluation of central versus peripheral thermoregulatory control in humans. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2021, 321, R91-R99.	0.9	7
69	Sustained increases in skin blood flow are not a prerequisite to initiate sweating during passive heat exposure. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017, 313, R140-R148.	0.9	6
70	Hemodynamic Stability to Surface Warming and Cooling During Sustained and Continuous Simulated Hemorrhage in Humans. <i>Shock</i> , 2016, 46, 42-49.	1.0	5
71	Impact of Finnish sauna bathing on circulating markers of inflammation in healthy middle-aged and older adults: A crossover study. <i>Complementary Therapies in Medicine</i> , 2020, 52, 102486.	1.3	5
72	Greater fluid loss does not fully explain the divergent hemodynamic balance mediating postexercise hypotension in endurance-trained men. <i>Journal of Applied Physiology</i> , 2018, 124, 1264-1273.	1.2	4

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73	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.	1.2	4
74	Elevated skin and core temperatures both contribute to reductions in tolerance to a simulated haemorrhagic challenge. <i>Experimental Physiology</i> , 2017, 102, 255-264.	0.9	3
75	Plasma hyperosmolality improves tolerance to combined heat stress and central hypovolemia in humans. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017, 312, R273-R280.	0.9	3
76	Seven days of hot water heat acclimation does not modulate the change in heart rate variability during passive heat exposure. <i>Applied Physiology, Nutrition and Metabolism</i> , 2021, 46, 257-264.	0.9	3
77	Passive heat acclimation does not modulate processing speed and executive functions during cognitive tasks performed at fixed levels of thermal strain. <i>Applied Physiology, Nutrition and Metabolism</i> , 2022, 47, 261-268.	0.9	3
78	Experimental evidence is available for safe cooling limits from exertional heat stroke. <i>European Journal of Applied Physiology</i> , 2012, 112, 2783-2784.	1.2	2
79	The influence of thermal factors on post-exercise haemodynamics in endurance exercise-trained men. <i>Journal of Physiology</i> , 2009, 587, 3419-3420.	1.3	1
80	The Frank-Starling mechanism and thermal stress: fundamentals applied!. <i>Journal of Physiology</i> , 2009, 587, 4147-4148.	1.3	1
81	High-intensity interval training vs. hydrochlorothiazide on blood pressure, cardiovascular health and cognition: Protocol of a non-inferiority trial. <i>Contemporary Clinical Trials</i> , 2021, 102, 106286.	0.8	1
82	Heart Rate Variability during Heat Exposure is not Affected by Short-term Passive Heat Acclimation in Young Healthy Participants. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	1
83	When filling the glass only leaves it half empty! Insight into the cardiovascular physiology of haemorrhage under heat stress. <i>Journal of Physiology</i> , 2012, 590, 1011-1012.	1.3	0
84	Sex-related differences in local and whole-body heat loss responses: Physical or physiological?. <i>Applied Physiology, Nutrition and Metabolism</i> , 2014, 39, 843-843.	0.9	0
85	We know that horses sweat and men perspire. But do ladies merely glow?. <i>Experimental Physiology</i> , 2017, 102, 522-522.	0.9	0
86	Finnish Sauna Bathing and Vascular Function in Adults with Coronary Artery Disease: Preliminary Analysis of a Randomized Controlled Trial. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
87	Does Attenuated Skin Blood Flow Lower Sweat Rate and Thereby the Critical Environmental Limit for Heat Balance?. <i>FASEB Journal</i> , 2016, 30, 1b670.	0.2	0
88	The Effect of Aging and Rapid Saline Infusion on Compensatory Reserve during Whole-Body Passive Heat Stress. <i>FASEB Journal</i> , 2017, 31, 1085.4.	0.2	0
89	Defining Acceptable Cold-Water Immersion Times for the Treatment of Exertional Hyperthermia When Rectal Temperature Measurements are not Available. <i>FASEB Journal</i> , 2018, 32, 859.4.	0.2	0
90	Vascular Function after Sauna Bathing in Healthy Older Adults. <i>FASEB Journal</i> , 2018, 32, 722.32.	0.2	0

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91	Acute Improvement of Vascular Function with Finnish Sauna Bathing in Older Adults with Stable Coronary Artery Disease. FASEB Journal, 2019, 33, 838.7.	0.2	0
92	Cognitive function during passive heat exposure is not affected by short-term heat acclimation. FASEB Journal, 2020, 34, 1-1.	0.2	0