

Thomas E Dick

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

2,365
citations

201575

27
h-index

233338

45
g-index

70
all docs

70
docs citations

70
times ranked

1613
citing authors

#	ARTICLE	IF	CITATIONS
1	Pontine Mechanisms of Respiratory Control. , 2012, 2, 2443-2469.		205
2	Modeling the ponto-medullary respiratory network. Respiratory Physiology and Neurobiology, 2004, 143, 307-319.	0.7	139
3	Cardiorespiratory Coupling. Progress in Brain Research, 2014, 209, 191-205.	0.9	132
4	CARDIOVASCULAR ALTERATIONS BY CHRONIC INTERMITTENT HYPOXIA: IMPORTANCE OF CAROTID BODY CHEMOREFLEXES. Clinical and Experimental Pharmacology and Physiology, 2005, 32, 447-449.	0.9	131
5	Acute intermittent hypoxia increases both phrenic and sympathetic nerve activities in the rat. Experimental Physiology, 2007, 92, 87-97.	0.9	121
6	Pontine respiratory neurons in anesthetized cats. Brain Research, 1994, 636, 259-269.	1.1	106
7	Systemic, cellular and molecular analysis of chemoreflex-mediated sympathoexcitation by chronic intermittent hypoxia. Experimental Physiology, 2007, 92, 39-44.	0.9	89
8	Ventrolateral pons mediates short-term depression of respiratory frequency after brief hypoxia. Respiration Physiology, 2000, 121, 87-100.	2.8	83
9	Effect of baroreceptor stimulation on the respiratory pattern: Insights into respiratoryâ€™sympathetic interactions. Respiratory Physiology and Neurobiology, 2010, 174, 135-145.	0.7	80
10	Functional Connectivity in the Pontomedullary Respiratory Network. Journal of Neurophysiology, 2008, 100, 1749-1769.	0.9	74
11	Learning to breathe: control of the inspiratoryâ€™expiratory phase transition shifts from sensoryâ€™to centralâ€™dominated during postnatal development in rats. Journal of Physiology, 2009, 587, 4931-4948.	1.3	74
12	Pontomedullary transection attenuates central respiratory modulation of sympathetic discharge, heart rate and the baroreceptor reflex in the <i>in situ</i> rat preparation. Experimental Physiology, 2008, 93, 803-816.	0.9	71
13	Entrainment pattern between sympathetic and phrenic nerve activities in the Sprague-Dawley rat: hypoxia-evoked sympathetic activity during expiration. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2004, 286, R1121-R1128.	0.9	63
14	Prolongation in expiration evoked from ventrolateral pons of adult rats. Journal of Applied Physiology, 1997, 82, 377-381.	1.2	62
15	A method for analyzing temporal patterns of variability of a time series from PoincarÃ© plots. Journal of Applied Physiology, 2012, 113, 297-306.	1.2	58
16	Cardio-respiratory coupling depends on the pons. Respiratory Physiology and Neurobiology, 2009, 168, 76-85.	0.7	48
17	Control of breathing by interacting pontine and pulmonary feedback loops. Frontiers in Neural Circuits, 2013, 7, 16.	1.4	47
18	Increased cardio-respiratory coupling evoked by slow deep breathing can persist in normal humans. Respiratory Physiology and Neurobiology, 2014, 204, 99-111.	0.7	45

#	ARTICLE	IF	CITATIONS
19	Increasing Local Excitability of Brainstem Respiratory Nuclei Reveals a Distributed Network Underlying Respiratory Motor Pattern Formation. <i>Frontiers in Physiology</i> , 2019, 10, 887.	1.3	41
20	Quantitative analysis of cardiovascular modulation in respiratory neural activity. <i>Journal of Physiology</i> , 2004, 556, 959-970.	1.3	40
21	Linking Inflammation, Cardiorespiratory Variability, and Neural Control in Acute Inflammation via Computational Modeling. <i>Frontiers in Physiology</i> , 2012, 3, 222.	1.3	39
22	Lung and brainstem cytokine levels are associated with breathing pattern changes in a rodent model of acute lung injury. <i>Respiratory Physiology and Neurobiology</i> , 2011, 178, 429-438.	0.7	38
23	Pontine respiratory-modulated activity before and after vagotomy in decerebrate cats. <i>Journal of Physiology</i> , 2008, 586, 4265-4282.	1.3	37
24	Diaphragm activation via high frequency spinal cord stimulation in a rodent model of spinal cord injury. <i>Experimental Neurology</i> , 2013, 247, 689-693.	2.0	36
25	KÄ¶lliker-Fuse nuclei regulate respiratory rhythm variability via a gain-control mechanism. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017, 312, R172-R188.	0.9	34
26	Effects of baroreceptor activation on respiratory variability in rat. <i>Respiratory Physiology and Neurobiology</i> , 2009, 166, 80-86.	0.7	32
27	Volumetric mapping of the functional neuroanatomy of the respiratory network in the perfused brainstem preparation of rats. <i>Journal of Physiology</i> , 2020, 598, 2061-2079.	1.3	32
28	Pontine-Ventral Respiratory Column Interactions Through RaphÄ© Circuits Detected Using Multi-Array Spike Train Recordings. <i>Journal of Neurophysiology</i> , 2009, 101, 2943-2960.	0.9	29
29	Physiological and pathophysiological interactions between the respiratory central pattern generator and the sympathetic nervous system. <i>Progress in Brain Research</i> , 2014, 212, 1-23.	0.9	29
30	Arterial pulse modulated activity is expressed in respiratory neural output. <i>Journal of Applied Physiology</i> , 2005, 99, 691-698.	1.2	27
31	Learning to breathe: Habituation of Hering-Breuer inflation reflex emerges with postnatal brainstem maturation. <i>Respiratory Physiology and Neurobiology</i> , 2014, 195, 44-49.	0.7	26
32	Brainstem inflammation modulates the ventilatory pattern and its variability after acute lung injury in rodents. <i>Journal of Physiology</i> , 2020, 598, 2791-2811.	1.3	26
33	Quantifying interactions between real oscillators with information theory and phase models: Application to cardiorespiratory coupling. <i>Physical Review E</i> , 2013, 87, 022709.	0.8	21
34	Blockade of dorsolateral pontine 5HT1A receptors destabilizes the respiratory rhythm in C57BL6/J wild-type mice. <i>Respiratory Physiology and Neurobiology</i> , 2016, 226, 110-114.	0.7	21
35	Respiratory Responses to Tracheobronchial Stimulation During Sleep and Wakefulness in the Adult Cat. <i>Sleep</i> , 1996, 19, 472-478.	0.6	20
36	A role for NMDA receptors in posthypoxic frequency decline in the rat. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1998, 274, R1546-R1555.	0.9	17

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37	Cardio-ventilatory coupling in young healthy resting subjects. <i>Journal of Applied Physiology</i> , 2012, 112, 1248-1257.	1.2	17
38	Effects of ion channel noise on neural circuits: an application to the respiratory pattern generator to investigate breathing variability. <i>Journal of Neurophysiology</i> , 2017, 117, 230-242.	0.9	17
39	Swallowing in Sleep and Wakefulness in Adult Cats. <i>Sleep</i> , 1995, 18, 325-329.	0.6	15
40	Decreased Hering-Breuer Input-Output Entrainment in a Mouse Model of Rett Syndrome. <i>Frontiers in Neural Circuits</i> , 2013, 7, 42.	1.4	14
41	Functional connectivity in raphé-pontomedullary circuits supports active suppression of breathing during hypocapnic apnea. <i>Journal of Neurophysiology</i> , 2015, 114, 2162-2186.	0.9	14
42	Lung-injury depresses glutamatergic synaptic transmission in the nucleus tractus solitarii via discrete age-dependent mechanisms in neonatal rats. <i>Brain, Behavior, and Immunity</i> , 2018, 70, 398-422.	2.0	14
43	Peripheral-to-central immune communication at the area postrema glial-barrier following bleomycin-induced sterile lung injury in adult rats. <i>Brain, Behavior, and Immunity</i> , 2020, 87, 610-633.	2.0	14
44	Traube-Hering waves are formed by interaction of respiratory sinus arrhythmia and pulse pressure modulation in healthy men. <i>Journal of Applied Physiology</i> , 2020, 129, 1193-1202.	1.2	12
45	Pontine GABAergic pathways: role and plasticity in the hypoxic ventilatory response. <i>Respiratory Physiology and Neurobiology</i> , 2004, 143, 141-153.	0.7	10
46	Variability, measuring the spice of life. <i>Journal of Applied Physiology</i> , 2011, 111, 351-352.	1.2	10
47	Adaptation to hypobaric hypoxia involves GABAA receptors in the pons. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 294, R549-R557.	0.9	9
48	Ventilatory pattern variability as a biometric for severity of acute lung injury in rats. <i>Respiratory Physiology and Neurobiology</i> , 2019, 265, 161-171.	0.7	9
49	Heartbeats entrain breathing via baroreceptor-mediated modulation of expiratory activity. <i>Experimental Physiology</i> , 2021, 106, 1181-1195.	0.9	9
50	C57BL/6J mouse apolipoprotein A2 gene is deterministic for apnea. <i>Respiratory Physiology and Neurobiology</i> , 2017, 235, 88-94.	0.7	8
51	Respiratory modulation of sympathetic activity is attenuated in adult rats conditioned with chronic hypobaric hypoxia. <i>Respiratory Physiology and Neurobiology</i> , 2015, 206, 53-60.	0.7	6
52	L-plotting: A method for visual analysis of physiological experimental and modeling multi-component data. <i>Neurocomputing</i> , 2010, 74, 328-336.	3.5	4
53	Recurrent Connections between the Pontine Respiratory Group and Ventrolateral Medullary Respiratory Column through Parallel Functional Pathways. <i>FASEB Journal</i> , 2006, 20, A370.	0.2	3
54	Response to: The post-inspiratory complex (PiCo), what is the evidence?. <i>Journal of Physiology</i> , 2021, 599, 361-362.	1.3	2

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55	Intrinsic Circuits of the Pontine Respiratory Group Inferred from Correlational Analysis of Large Scale Parallel Recordings. <i>FASEB Journal</i> , 2006, 20, A370.	0.2	2
56	Bifurcation of the respiratory response to lung inflation in anesthetized dogs. <i>Respiratory Physiology and Neurobiology</i> , 2017, 244, 26-31.	0.7	1
57	Pontoâ€medullary transection attenuates sympathorespiratory coupling and eliminates cardiac sinus arrhythmia in the in situ rat. <i>FASEB Journal</i> , 2008, 22, 739.6.	0.2	1
58	Cannabinoid Receptor mRNA Expression in Central and Peripheral Tissues in a Rodent Model of Peritonitis. <i>Cannabis and Cannabinoid Research</i> , 2022, , .	1.5	1
59	Periodicity: A Characteristic of Heart Rate Variability Modified by the Type of Mechanical Ventilation After Acute Lung Injury. <i>Frontiers in Physiology</i> , 2018, 9, 772.	1.3	0
60	Respiratory modulation of thoracic sympathetic nerve activity increased following brief hypoxia in the rat in situ preparation. <i>FASEB Journal</i> , 2006, 20, LB36.	0.2	0
61	Synchrony is altered in the respiratory pattern generator following acute hypoxic challenge. <i>FASEB Journal</i> , 2010, 24, 1042.1.	0.2	0
62	Evidence for distributed processing during hypoxic stimulation by the brainstem cardiorespiratory network. <i>FASEB Journal</i> , 2010, 24, 1042.5.	0.2	0
63	Protection from hypoxic conditioning in juvenile rats may be related to age or conditioning duration. <i>FASEB Journal</i> , 2011, 25, 1077.1.	0.2	0
64	Respiratoryâ€™Sympathetic Interactions and Central Baroreflex Pathways: Insights from Computational Modeling. <i>FASEB Journal</i> , 2011, 25, 1076.1.	0.2	0
65	Cardioâ€™respiratory Coupling is Negligible in a Rodent Septicâ€™Model. <i>FASEB Journal</i> , 2012, 26, 1148.5.	0.2	0
66	Phase synchronization as a flexible definition of the respiratory pattern: Application to pontineâ€™dependent control of the respiratory pattern. <i>FASEB Journal</i> , 2018, 32, 915.2.	0.2	0
67	Chemoreflex Responses to LPS Exposure During a Critical Window of Development in the in situ Arterially Perfused Working Heart Brainstem Preparation. <i>FASEB Journal</i> , 2018, 32, 742.8.	0.2	0
68	Preliminary Phenotypic Cluster Analysis of Cardiorespiratory Modulated Neuronal Discharge Patterns with Dynamic Visualizations. <i>FASEB Journal</i> , 2018, 32, 893.5.	0.2	0
69	Modulation of mRNA Expression in Peripheral Tissue in a Rodent E. coli Sepsis Model. <i>FASEB Journal</i> , 2019, 33, 859.5.	0.2	0