

# Thomas E Dick

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67

papers

1,912

citations

26

h-index

43

g-index

70

ext. papers

2,143

ext. citations

3.2

avg, IF

4.74

L-index

#	Paper	IF	Citations
67	Heartbeats entrain breathing via baroreceptor-mediated modulation of expiratory activity. <i>Experimental Physiology</i> , <b>2021</b> , 106, 1181-1195	2.4	2
66	Response to: The post-inspiratory complex (PiCo), what is the evidence?. <i>Journal of Physiology</i> , <b>2021</b> , 599, 361-362	3.9	1
65	Brainstem inflammation modulates the ventilatory pattern and its variability after acute lung injury in rodents. <i>Journal of Physiology</i> , <b>2020</b> , 598, 2791-2811	3.9	10
64	Volumetric mapping of the functional neuroanatomy of the respiratory network in the perfused brainstem preparation of rats. <i>Journal of Physiology</i> , <b>2020</b> , 598, 2061-2079	3.9	16
63	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> , <b>2020</b> , 87, 610-633	16.6	5
62	Traube-Hering waves are formed by interaction of respiratory sinus arrhythmia and pulse pressure modulation in healthy men. <i>Journal of Applied Physiology</i> , <b>2020</b> , 129, 1193-1202	3.7	2
61	Increasing Local Excitability of Brainstem Respiratory Nuclei Reveals a Distributed Network Underlying Respiratory Motor Pattern Formation. <i>Frontiers in Physiology</i> , <b>2019</b> , 10, 887	4.6	28
60	Ventilatory pattern variability as a biometric for severity of acute lung injury in rats. <i>Respiratory Physiology and Neurobiology</i> , <b>2019</b> , 265, 161-171	2.8	4
59	Modulation of mRNA Expression in Peripheral Tissue in a Rodent E. coli Sepsis Model. <i>FASEB Journal</i> , <b>2019</b> , 33, 859.5	0.9	
58	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> , <b>2018</b> , 70, 398-422	16.6	10
57	Periodicity: A Characteristic of Heart Rate Variability Modified by the Type of Mechanical Ventilation After Acute Lung Injury. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 772	4.6	
56	Phase synchronization as a flexible definition of the respiratory pattern: Application to pontine-dependent control of the respiratory pattern. <i>FASEB Journal</i> , <b>2018</b> , 32, 915.2	0.9	
55	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> , <b>2018</b> , 32, 742.8	0.9	
54	Preliminary Phenotypic Cluster Analysis of Cardiorespiratory Modulated Neuronal Discharge Patterns with Dynamic Visualizations. <i>FASEB Journal</i> , <b>2018</b> , 32, 893.5	0.9	
53	C57BL/6J mouse apolipoprotein A2 gene is deterministic for apnea. <i>Respiratory Physiology and Neurobiology</i> , <b>2017</b> , 235, 88-94	2.8	5
52	Klüiker-Fuse nuclei regulate respiratory rhythm variability via a gain-control mechanism. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2017</b> , 312, R172-R188	3.2	29
51	Effects of ion channel noise on neural circuits: an application to the respiratory pattern generator to investigate breathing variability. <i>Journal of Neurophysiology</i> , <b>2017</b> , 117, 230-242	3.2	13

50	Bifurcation of the respiratory response to lung inflation in anesthetized dogs. <i>Respiratory Physiology and Neurobiology</i> , <b>2017</b> , 244, 26-31	2.8	1
49	Blockade of dorsolateral pontine 5HT1A receptors destabilizes the respiratory rhythm in C57BL6/J wild-type mice. <i>Respiratory Physiology and Neurobiology</i> , <b>2016</b> , 226, 110-4	2.8	18
48	Respiratory modulation of sympathetic activity is attenuated in adult rats conditioned with chronic hypobaric hypoxia. <i>Respiratory Physiology and Neurobiology</i> , <b>2015</b> , 206, 53-60	2.8	6
47	Functional connectivity in raphé-pontomedullary circuits supports active suppression of breathing during hypocapnic apnea. <i>Journal of Neurophysiology</i> , <b>2015</b> , 114, 2162-86	3.2	11
46	Physiological and pathophysiological interactions between the respiratory central pattern generator and the sympathetic nervous system. <i>Progress in Brain Research</i> , <b>2014</b> , 212, 1-23	2.9	23
45	Cardiorespiratory coupling: common rhythms in cardiac, sympathetic, and respiratory activities. <i>Progress in Brain Research</i> , <b>2014</b> , 209, 191-205	2.9	71
44	Increased cardio-respiratory coupling evoked by slow deep breathing can persist in normal humans. <i>Respiratory Physiology and Neurobiology</i> , <b>2014</b> , 204, 99-111	2.8	32
43	Learning to breathe: habituation of Hering-Breuer inflation reflex emerges with postnatal brainstem maturation. <i>Respiratory Physiology and Neurobiology</i> , <b>2014</b> , 195, 44-9	2.8	18
42	Diaphragm activation via high frequency spinal cord stimulation in a rodent model of spinal cord injury. <i>Experimental Neurology</i> , <b>2013</b> , 247, 689-93	5.7	29
41	Quantifying interactions between real oscillators with information theory and phase models: application to cardiorespiratory coupling. <i>Physical Review E</i> , <b>2013</b> , 87, 022709	2.4	17
40	Control of breathing by interacting pontine and pulmonary feedback loops. <i>Frontiers in Neural Circuits</i> , <b>2013</b> , 7, 16	3.5	37
39	Decreased Hering-Breuer input-output entrainment in a mouse model of Rett syndrome. <i>Frontiers in Neural Circuits</i> , <b>2013</b> , 7, 42	3.5	12
38	Linking Inflammation, Cardiorespiratory Variability, and Neural Control in Acute Inflammation via Computational Modeling. <i>Frontiers in Physiology</i> , <b>2012</b> , 3, 222	4.6	35
37	Cardio-ventilatory coupling in young healthy resting subjects. <i>Journal of Applied Physiology</i> , <b>2012</b> , 112, 1248-57	3.7	12
36	Pontine mechanisms of respiratory control. <i>Comprehensive Physiology</i> , <b>2012</b> , 2, 2443-69	7.7	152
35	A method for analyzing temporal patterns of variability of a time series from Poincare plots. <i>Journal of Applied Physiology</i> , <b>2012</b> , 113, 297-306	3.7	45
34	Cardio-respiratory Coupling is Negligible in a Rodent Septic-Model. <i>FASEB Journal</i> , <b>2012</b> , 26, 1148.5	0.9	
33	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> , <b>2011</b> , 178, 429-38	2.8	28

32	Protection from hypoxic conditioning in juvenile rats may be related to age or conditioning duration. <i>FASEB Journal</i> , <b>2011</b> , 25, 1077.1	0.9	
31	Respiratory-Sympathetic Interactions and Central Baroreflex Pathways: Insights from Computational Modeling. <i>FASEB Journal</i> , <b>2011</b> , 25, 1076.1	0.9	
30	Effect of baroreceptor stimulation on the respiratory pattern: insights into respiratory-sympathetic interactions. <i>Respiratory Physiology and Neurobiology</i> , <b>2010</b> , 174, 135-45	2.8	67
29	L-plotting: a method for visual analysis of physiological experimental and modeling multi-component data. <i>Neurocomputing</i> , <b>2010</b> , 74, 328-336	5.4	1
28	Synchrony is altered in the respiratory pattern generator following acute hypoxic challenge. <i>FASEB Journal</i> , <b>2010</b> , 24, 1042.1	0.9	
27	Evidence for distributed processing during hypoxic stimulation by the brainstem cardiorespiratory network. <i>FASEB Journal</i> , <b>2010</b> , 24, 1042.5	0.9	
26	Effects of baroreceptor activation on respiratory variability in rat. <i>Respiratory Physiology and Neurobiology</i> , <b>2009</b> , 166, 80-6	2.8	27
25	Cardio-respiratory coupling depends on the pons. <i>Respiratory Physiology and Neurobiology</i> , <b>2009</b> , 168, 76-85	2.8	45
24	Learning to breathe: control of the inspiratory-expiratory phase transition shifts from sensory- to central-dominated during postnatal development in rats. <i>Journal of Physiology</i> , <b>2009</b> , 587, 4931-48	3.9	63
23	Pontine-ventral respiratory column interactions through raphe circuits detected using multi-array spike train recordings. <i>Journal of Neurophysiology</i> , <b>2009</b> , 101, 2943-60	3.2	24
22	Pontomedullary transection attenuates central respiratory modulation of sympathetic discharge, heart rate and the baroreceptor reflex in the in situ rat preparation. <i>Experimental Physiology</i> , <b>2008</b> , 93, 803-16	2.4	61
21	Pontine respiratory-modulated activity before and after vagotomy in decerebrate cats. <i>Journal of Physiology</i> , <b>2008</b> , 586, 4265-82	3.9	33
20	Adaptation to hypobaric hypoxia involves GABA A receptors in the pons. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2008</b> , 294, R549-57	3.2	8
19	Functional connectivity in the pontomedullary respiratory network. <i>Journal of Neurophysiology</i> , <b>2008</b> , 100, 1749-69	3.2	66
18	Ponto-medullary transection attenuates sympathorespiratory coupling and eliminates cardiac sinus arrhythmia in the in situ rat. <i>FASEB Journal</i> , <b>2008</b> , 22, 739.6	0.9	0
17	Acute intermittent hypoxia increases both phrenic and sympathetic nerve activities in the rat. <i>Experimental Physiology</i> , <b>2007</b> , 92, 87-97	2.4	107
16	Systemic, cellular and molecular analysis of chemoreflex-mediated sympathoexcitation by chronic intermittent hypoxia. <i>Experimental Physiology</i> , <b>2007</b> , 92, 39-44	2.4	81
15	Recurrent Connections between the Pontine Respiratory Group and Ventrolateral Medullary Respiratory Column through Parallel Functional Pathways. <i>FASEB Journal</i> , <b>2006</b> , 20, A370	0.9	3

14	Respiratory modulation of thoracic sympathetic nerve activity increased following brief hypoxia in the rat in situ preparation. <i>FASEB Journal</i> , <b>2006</b> , 20, LB36	0.9	
13	Intrinsic Circuits of the Pontine Respiratory Group Inferred from Correlational Analysis of Large Scale Parallel Recordings. <i>FASEB Journal</i> , <b>2006</b> , 20, A370	0.9	2
12	Cardiovascular alterations by chronic intermittent hypoxia: importance of carotid body chemoreflexes. <i>Clinical and Experimental Pharmacology and Physiology</i> , <b>2005</b> , 32, 447-9	3	116
11	Arterial pulse modulated activity is expressed in respiratory neural output. <i>Journal of Applied Physiology</i> , <b>2005</b> , 99, 691-8	3.7	25
10	Entrainment pattern between sympathetic and phrenic nerve activities in the Sprague-Dawley rat: hypoxia-evoked sympathetic activity during expiration. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2004</b> , 286, R1121-8	3.2	56
9	Quantitative analysis of cardiovascular modulation in respiratory neural activity. <i>Journal of Physiology</i> , <b>2004</b> , 556, 959-70	3.9	35
8	Pontine GABAergic pathways: role and plasticity in the hypoxic ventilatory response. <i>Respiratory Physiology and Neurobiology</i> , <b>2004</b> , 143, 141-53	2.8	9
7	Modeling the ponto-medullary respiratory network. <i>Respiratory Physiology and Neurobiology</i> , <b>2004</b> , 143, 307-19	2.8	125
6	Ventrolateral pons mediates short-term depression of respiratory frequency after brief hypoxia. <i>Respiration Physiology</i> , <b>2000</b> , 121, 87-100		74
5	A role for NMDA receptors in posthypoxic frequency decline in the rat. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>1998</b> , 274, R1546-55	3.2	16
4	Prolongation in expiration evoked from ventrolateral pons of adult rats. <i>Journal of Applied Physiology</i> , <b>1997</b> , 82, 377-81	3.7	59
3	Respiratory responses to tracheobronchial stimulation during sleep and wakefulness in the adult cat. <i>Sleep</i> , <b>1996</b> , 19, 472-8	1.1	17
2	Swallowing in sleep and wakefulness in adult cats. <i>Sleep</i> , <b>1995</b> , 18, 325-9	1.1	13
1	Pontine respiratory neurons in anesthetized cats. <i>Brain Research</i> , <b>1994</b> , 636, 259-69	3.7	102