

David Mendelowitz

List of Publications by Year in descending order

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67
papers

1,392
citations

331259

21
h-index

344852

36
g-index

67
all docs

67
docs citations

67
times ranked

1503
citing authors

#	ARTICLE	IF	CITATIONS
1	Synaptic and Neurotransmitter Activation of Cardiac Vagal Neurons in the Nucleus Ambiguus. <i>Annals of the New York Academy of Sciences</i> , 2001, 940, 237-246.	1.8	120
2	Respiratory Sinus Arrhythmia. <i>Circulation Research</i> , 2003, 93, 565-572.	2.0	107
3	Advances in Parasympathetic Control of Heart Rate and Cardiac Function. <i>Physiology</i> , 1999, 14, 155-161.	1.6	89
4	Optogenetic Stimulation of Locus Ceruleus Neurons Augments Inhibitory Transmission to Parasympathetic Cardiac Vagal Neurons via Activation of Brainstem $\hat{1}\pm 1$ and $\hat{1}^21$ Receptors. <i>Journal of Neuroscience</i> , 2014, 34, 6182-6189.	1.7	73
5	Optogenetic release of norepinephrine from cardiac sympathetic neurons alters mechanical and electrical function. <i>Cardiovascular Research</i> , 2015, 105, 143-150.	1.8	61
6	Activity of Cardiorespiratory Networks Revealed by Transsynaptic Virus Expressing GFP. <i>Journal of Neurophysiology</i> , 2001, 85, 435-438.	0.9	58
7	Intranasal Leptin Relieves Sleep-disordered Breathing in Mice with Diet-induced Obesity. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019, 199, 773-783.	2.5	56
8	Oxytocin neuron activation prevents hypertension that occurs with chronic intermittent hypoxia/hypercapnia in rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 310, H1549-H1557.	1.5	53
9	Optogenetic approaches to characterize the long-range synaptic pathways from the hypothalamus to brain stem autonomic nuclei. <i>Journal of Neuroscience Methods</i> , 2012, 210, 238-246.	1.3	52
10	Visualization of Oxytocin Release that Mediates Paired Pulse Facilitation in Hypothalamic Pathways to Brainstem Autonomic Neurons. <i>PLoS ONE</i> , 2014, 9, e112138.	1.1	50
11	Chronic activation of hypothalamic oxytocin neurons improves cardiac function during left ventricular hypertrophy-induced heart failure. <i>Cardiovascular Research</i> , 2017, 113, 1318-1328.	1.8	46
12	Evidence of Superior and Inferior Sinoatrial Nodes in the Mammalian Heart. <i>JACC: Clinical Electrophysiology</i> , 2020, 6, 1827-1840.	1.3	44
13	Hard to swallow: Developmental biological insights into pediatric dysphagia. <i>Developmental Biology</i> , 2016, 409, 329-342.	0.9	39
14	Chemogenetic stimulation of the hypoglossal neurons improves upper airway patency. <i>Scientific Reports</i> , 2017, 7, 44392.	1.6	35
15	Neurotransmission to parasympathetic cardiac vagal neurons in the brain stem is altered with left ventricular hypertrophy-induced heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 309, H1281-H1287.	1.5	34
16	Parasympathetic Vagal Control of Cardiac Function. <i>Current Hypertension Reports</i> , 2016, 18, 22.	1.5	32
17	Chronic intermittent hypoxia/hypercapnia blunts heart rate responses and alters neurotransmission to cardiac vagal neurons. <i>Journal of Physiology</i> , 2014, 592, 2799-2811.	1.3	31
18	Benefits of oxytocin administration in obstructive sleep apnea. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017, 313, L825-L833.	1.3	31

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19	Altered neurobiological function of brainstem hypoglossal neurons in DiGeorge/22q11.2 Deletion Syndrome. <i>Neuroscience</i> , 2017, 359, 1-7.	1.1	31
20	Sudden Heart Rate Reduction Upon Optogenetic Release of Acetylcholine From Cardiac Parasympathetic Neurons in Perfused Hearts. <i>Frontiers in Physiology</i> , 2019, 10, 16.	1.3	31
21	Chronic Intermittent Hypoxia and Hypercapnia Inhibit the Hypothalamic Paraventricular Nucleus Neurotransmission to Parasympathetic Cardiac Neurons in the Brain Stem. <i>Hypertension</i> , 2014, 64, 597-603.	1.3	29
22	Dexmedetomidine decreases inhibitory but not excitatory neurotransmission to cardiac vagal neurons in the nucleus ambiguus. <i>Brain Research</i> , 2014, 1574, 1-5.	1.1	23
23	Intranasal Leptin Prevents Opioid-induced Sleep-disordered Breathing in Obese Mice. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 63, 502-509.	1.4	23
24	Persistent Feeding and Swallowing Deficits in a Mouse Model of 22q11.2 Deletion Syndrome. <i>Frontiers in Neurology</i> , 2020, 11, 4.	1.1	22
25	Direct projections from hypothalamic orexin neurons to brainstem cardiac vagal neurons. <i>Neuroscience</i> , 2016, 339, 47-53.	1.1	21
26	Leptin receptor expression in the dorsomedial hypothalamus stimulates breathing during NREM sleep in <i>db/db</i> mice. <i>Sleep</i> , 2021, 44, .	0.6	21
27	Agatoxin-IVA-Sensitive Calcium Channels Mediate the Presynaptic and Postsynaptic Nicotinic Activation of Cardiac Vagal Neurons. <i>Journal of Neurophysiology</i> , 2001, 85, 164-168.	0.9	19
28	Hypoxia and hypercapnia inhibit hypothalamic orexin neurons in rats. <i>Journal of Neurophysiology</i> , 2016, 116, 2250-2259.	0.9	19
29	Silencing of Hypoglossal Motoneurons Leads to Sleep Disordered Breathing in Lean Mice. <i>Frontiers in Neurology</i> , 2018, 9, 962.	1.1	19
30	Optogenetic identification of hypothalamic orexin neuron projections to paraventricular spinally projecting neurons. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 312, H808-H817.	1.5	17
31	Intranasal oxytocin increases respiratory rate and reduces obstructive event duration and oxygen desaturation in obstructive sleep apnea patients: a randomized double blinded placebo controlled study. <i>Sleep Medicine</i> , 2020, 74, 242-247.	0.8	17
32	Activation of Oxytocin Neurons Improves Cardiac Function in a Pressure-Overload Model of Heart Failure. <i>JACC Basic To Translational Science</i> , 2020, 5, 484-497.	1.9	16
33	Cholinergic stimulation improves electrophysiological rate adaptation during pressure overload-induced heart failure in rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 319, H1358-H1368.	1.5	13
34	GABA and glycine neurons from the ventral medullary region inhibit hypoglossal motoneurons. <i>Sleep</i> , 2020, 43, .	0.6	11
35	Sex Differences in the Hypothalamic Oxytocin Pathway to Locus Coeruleus and Augmented Attention with Chemogenetic Activation of Hypothalamic Oxytocin Neurons. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8510.	1.8	11
36	Chemogenetic activation of intracardiac cholinergic neurons improves cardiac function in pressure overload-induced heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 319, H3-H12.	1.5	9

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37	The Effect of DREADD Activation of Leptin Receptor Positive Neurons in the Nucleus of the Solitary Tract on Sleep Disordered Breathing. International Journal of Molecular Sciences, 2021, 22, 6742.	1.8	8
38	Function and modulation of premotor brainstem parasympathetic cardiac neurons that control heart rate by hypoxia-, sleep-, and sleep-related diseases including obstructive sleep apnea. Progress in Brain Research, 2014, 212, 39-58.	0.9	6
39	Optogenetic Control of Cardiac Autonomic Neurons in Transgenic Mice. Methods in Molecular Biology, 2021, 2191, 309-321.	0.4	5
40	Combined hypoxia and hypercapnia, but not hypoxia alone, suppresses neurotransmission from orexin to hypothalamic paraventricular spinally-projecting neurons in weanling rats. Brain Research, 2018, 1679, 33-38.	1.1	4
41	Targeting Parasympathetic Activity to Improve Autonomic Tone & Clinical Outcomes. Physiology, 2021, , .	1.6	3
42	Intermittent hypoxia recruits an excitatory neurotransmission to cardiac vagal neurons in the nucleus ambiguus. FASEB Journal, 2006, 20, A1202.	0.2	2
43	Tonic and phasic GABAergic currents in premotor cardiac vagal neurons in the nucleus ambiguus. FASEB Journal, 2006, 20, A364.	0.2	1
44	C1 Neurons in the <sc>RVLN</sc>: are they catecholaminergic in name only? (Commentary on Abbott) Tj ETQq0 0 0 rgBT /Overlock I	1.2	0
45	DREADD Activation of Leptin Receptor Positive Neurons in The Nucleus of the Solitary Tract During Obstructive Sleep Apnea in Obese Mice. FASEB Journal, 2021, 35, .	0.2	0
46	Nitric Oxide Decreases Glutamatergic Neurotransmission to Cardiac Vagal Neurons in the Nucleus Ambiguus.. FASEB Journal, 2006, 20, A364.	0.2	0
47	Fentanyl induced decrease in respiratory sinus arrhythmia may be reversed by activation of 5-HT4 receptors. FASEB Journal, 2006, 20, A365.	0.2	0
48	Activation of the diving reflex and excitation of cardiac vagal neurons (CVNs) in the nucleus ambiguus (NA). FASEB Journal, 2007, 21, A471.	0.2	0
49	5-HT2 receptor agonists modulate excitatory neurotransmission to cardiac vagal neurons within the nucleus ambiguus. FASEB Journal, 2007, 21, A470.	0.2	0
50	Activation of 5-HT1A and 5-HT4(alpha) receptors differentially prevent opioid-induced inhibition of brainstem cardiovascular and respiratory function. FASEB Journal, 2007, 21, A470.	0.2	0
51	Serotonin receptors partially mediate excitation of cardiac vagal neurons in the nucleus ambiguus post hypoxia/hypercapnia. FASEB Journal, 2007, 21, A470.	0.2	0
52	Effects of ATP on neurotransmission to rat cardiac vagal neurons in the nucleus ambiguus. FASEB Journal, 2007, 21, A470.	0.2	0
53	5HT1A Receptor Mediated Inhibition of Glutamatergic Neurotransmission to Cardiac Vagal Neurons Following Hypoxia and Hypercapnia. FASEB Journal, 2009, 23, 1009.2.	0.2	0
54	Norepinephrine increases glycinergic neurotransmission to cardiac vagal neurons in the nucleus ambiguus. FASEB Journal, 2011, 25, 1077.5.	0.2	0

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55	Prenatal SO ₂ exposure alters brainstem neurons that mediate parasympathetic control of heart rate. FASEB Journal, 2011, 25, 1077.9.	0.2	0
56	Norepinephrine increases GABAergic neurotransmission to cardiac vagal neurons via activation of β_1 adrenergic receptors. FASEB Journal, 2011, 25, 1077.7.	0.2	0
57	Hypoxia reversibly inhibits inspiratory-related GABAergic neurotransmission to cardiac vagal neurons in the nucleus ambiguus. FASEB Journal, 2011, 25, .	0.2	0
58	Photostimulation of spinal trigeminal neuron pathways to parasympathetic cardiac vagal neurons. FASEB Journal, 2011, 25, .	0.2	0
59	β_1 adrenergic receptors decrease glutamatergic neurotransmission to cardiac vagal neurons. FASEB Journal, 2011, 25, 1077.8.	0.2	0
60	Paraventricular nucleus of the hypothalamus directly innervates brainstem cardiac parasympathetic neurons. FASEB Journal, 2011, 25, 1077.20.	0.2	0
61	Optogenetic stimulation of the locus coeruleus noradrenergic neurons increase inhibitory neurotransmission to cardiac vagal neurons in the nucleus ambiguus. FASEB Journal, 2013, 27, 932.1.	0.2	0
62	Perinatal Sulfur Dioxide Exposure Alters Brainstem Parasympathetic Control of Heart Rate. FASEB Journal, 2013, 27, 1135.11.	0.2	0
63	Recruitment of serotonergic responses in cardiac vagal neurons during hypoxia and hypercapnia. FASEB Journal, 2013, 27, 1135.2.	0.2	0
64	Sleep disturbance alters autonomic balance to the heart. , 2015, , 28-29.		0
65	Restoration of Oxytocin Neuron Activity Prevents Hypertension Caused by Chronic Intermittent Hypoxia/Hypercapnia. FASEB Journal, 2015, 29, 652.2.	0.2	0
66	Diminished Excitatory Neurotransmission To Brainstem Cardiac Vagal Neurons In Rats With Ascending Aortic Constriction-induced Heart Failure. FASEB Journal, 2015, 29, 985.4.	0.2	0
67	Activation of Leptin-expressing Neurons in the Dorsomedial Hypothalamus Increases Hypercapnic Ventilatory Response and Relieves Obstructive Sleep Apnea in Obese Mice. FASEB Journal, 2022, 36, .	0.2	0