Jack L Feldman

List of Publications by Citations

163 papers	16,917 citations	68 h-index	128 g-index
176 ext. papers	18,294 ext. citations	7 avg, IF	6.72 L-index

#	Paper	IF	Citations
163	Pre-Bötzinger complex: a brainstem region that may generate respiratory rhythm in mammals. *Science*, **1991**, 254, 726-9	33.3	1625
162	Breathing: rhythmicity, plasticity, chemosensitivity. *Annual Review of Neuroscience*, **2003**, 26, 239-66	17	687
161	Looking for inspiration: new perspectives on respiratory rhythm. *Nature Reviews Neuroscience*, **2006**, 7, 232-42	13.5	647
160	Modulation of respiratory frequency by peptidergic input to rhythmogenic neurons in the preBötzinger complex. *Science*, **1999**, 286, 1566-8	33.3	550
159	PreBötzinger complex and pacemaker neurons: hypothesized site and kernel for respiratory rhythm generation. *Annual Review of Physiology*, **1998**, 60, 385-405	23.1	493
158	Synaptic control of motoneuronal excitability. *Physiological Reviews*, **2000**, 80, 767-852	47.9	478
157	Normal breathing requires preBötzinger complex neurokinin-1 receptor-expressing neurons. *Nature Neuroscience*, **2001**, 4, 927-30	25.5	417
156	Brainstem network controlling descending drive to phrenic motoneurons in rat. *Journal of Comparative Neurology*, **1994**, 347, 64-86	3.4	397
155	Brainstem projections to the major respiratory neuron populations in the medulla of the cat. *Journal of Comparative Neurology*, **1989**, 281, 69-96	3.4	348
154	Generation and transmission of respiratory oscillations in medullary slices: role of excitatory amino acids. *Journal of Neurophysiology*, **1993**, 70, 1497-515	3.2	342
153	Understanding the rhythm of breathing: so near, yet so far. *Annual Review of Physiology*, **2013**, 75, 423-52	23.1	310
152	Distinct rhythm generators for inspiration and expiration in the juvenile rat. *Journal of Physiology*, **2006**, 570, 407-20	3.9	297
151	In vitro brainstem-spinal cord preparations for study of motor systems for mammalian respiration and locomotion. *Journal of Neuroscience Methods*, **1987**, 21, 321-33	3	286
150	Opioid-induced quantal slowing reveals dual networks for respiratory rhythm generation. *Neuron*, **2003**, 37, 821-6	13.9	269
149	Neural mechanisms generating respiratory pattern in mammalian brain stem-spinal cord in vitro. I. Spatiotemporal patterns of motor and medullary neuron activity. *Journal of Neurophysiology*, **1990**, 64, 1149-69	3.2	259
148	Breathing matters. *Nature Reviews Neuroscience*, **2018**, 19, 351-367	13.5	255
147	Silencing preBötzinger complex somatostatin-expressing neurons induces persistent apnea in awake rat. *Nature Neuroscience*, **2008**, 11, 538-40	25.5	236

146	Cellular mechanisms underlying modulation of breathing pattern in mammals. *Annals of the New York Academy of Sciences*, **1989**, 563, 114-30	6.5	235
145	Sodium and calcium current-mediated pacemaker neurons and respiratory rhythm generation. *Journal of Neuroscience*, **2005**, 25, 446-53	6.6	225
144	Role of excitatory amino acids in the generation and transmission of respiratory drive in neonatal rat. *Journal of Physiology*, **1991**, 437, 727-49	3.9	216
143	Respiratory rhythm: an emergent network property?. *Neuron*, **2002**, 34, 821-30	13.9	198
142	Neural mechanisms generating locomotion studied in mammalian brain stem-spinal cord in vitro. *FASEB Journal*, **1988**, 2, 2283-8	0.9	193
141	Respiratory rhythm generation and synaptic inhibition of expiratory neurons in pre-BÖtzinger complex: differential roles of glycinergic and GABAergic neural transmission. *Journal of Neurophysiology*, **1997**, 77, 1853-60	3.2	188
140	Active expiration induced by excitation of ventral medulla in adult anesthetized rats. *Journal of Neuroscience*, **2011**, 31, 2895-905	6.6	180
139	Sleep-disordered breathing after targeted ablation of preBötzinger complex neurons. *Nature Neuroscience*, **2005**, 8, 1142-4	25.5	180
138	Monosynaptic transmission of respiratory drive to phrenic motoneurons from brainstem bulbospinal neurons in rats. *Journal of Comparative Neurology*, **1988**, 269, 47-57	3.4	166
137	Inspiratory bursts in the preBötzinger complex depend on a calcium-activated non-specific cation current linked to glutamate receptors in neonatal mice. *Journal of Physiology*, **2007**, 582, 113-25	3.9	162
136	Brainstem connections of the rostral ventral respiratory group of the rat. *Brain Research*, **1990**, 513, 35-42	3.7	162
135	Differential innervation of protruder and retractor muscles of the tongue in rat. *Journal of Comparative Neurology*, **1995**, 357, 376-94	3.4	160
134	Pacemaker behavior of respiratory neurons in medullary slices from neonatal rat. *Journal of Neurophysiology*, **1994**, 72, 2598-608	3.2	159
133	Modulation of respiratory activity of neonatal rat phrenic motoneurones by serotonin. *Journal of Physiology*, **1993**, 461, 213-33	3.9	150
132	Excitatory amino acid-mediated transmission of inspiratory drive to phrenic motoneurons. *Journal of Neurophysiology*, **1990**, 64, 423-36	3.2	147
131	Interaction of pulmonary afferents and pneumotaxic center in control of respiratory pattern in cats. *Journal of Neurophysiology*, **1976**, 39, 31-44	3.2	143
130	Projections from the ventral respiratory group to phrenic and intercostal motoneurons in cat: an autoradiographic study. *Journal of Neuroscience*, **1985**, 5, 1993-2000	6.6	142
129	Mechanisms underlying regulation of respiratory pattern by nicotine in preBötzinger complex. *Journal of Neurophysiology*, **2001**, 85, 2461-7	3.2	140

128	Subnuclear organization of the lateral tegmental field of the rat. I: Nucleus ambiguus and ventral respiratory group. *Journal of Comparative Neurology*, **1990**, 294, 202-11	3.4	135
127	The effects of microstimulation and microlesions in the ventral and dorsal respiratory groups in medulla of cat. *Journal of Neuroscience*, **1982**, 2, 744-57	6.6	134
126	Electrical coupling and excitatory synaptic transmission between rhythmogenic respiratory neurons in the preBötzinger complex. *Journal of Neuroscience*, **2000**, 20, RC113	6.6	133
125	Opioid-resistant respiratory pathway from the preinspiratory neurones to abdominal muscles: in vivo and in vitro study in the newborn rat. *Journal of Physiology*, **2002**, 545, 1017-26	3.9	132
124	Breathing control center neurons that promote arousal in mice. *Science*, **2017**, 355, 1411-1415	33.3	117
123	The peptidergic control circuit for sighing. *Nature*, **2016**, 530, 293-297	50.4	116
122	Projections of preBötzinger complex neurons in adult rats. *Journal of Comparative Neurology*, **2010**, 518, 1862-78	3.4	108
121	Powerful inhibition of pontine respiratory neurons by pulmonary afferent activity. *Brain Research*, **1976**, 104, 341-6	3.7	108
120	Pre-Bötzinger complex in cats: respiratory neuronal discharge patterns. *Brain Research*, **1992**, 590, 337-40	3.7	107
119	Role of inhibition in respiratory pattern generation. *Journal of Neuroscience*, **2013**, 33, 5454-65	6.6	106
118	Dorsal and ventral myotome motoneurons and their input during fictive locomotion in lamprey. *Journal of Neuroscience*, **1985**, 5, 654-61	6.6	106
117	Role of persistent sodium current in mouse preBötzinger Complex neurons and respiratory rhythm generation. *Journal of Physiology*, **2007**, 580, 485-96	3.9	104
116	Synaptic activity-independent persistent plasticity in endogenously active mammalian motoneurons. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 4292-5	11.5	102
115	Discharge properties of dorsal medullary inspiratory neurons: relation to pulmonary afferent and phrenic efferent discharge. *Journal of Neurophysiology*, **1984**, 51, 753-76	3.2	94
114	Role of parafacial nuclei in control of breathing in adult rats. *Journal of Neuroscience*, **2015**, 35, 1052-67	6.6	93
113	Involvement of excitatory amino acids in neurotransmission of inspiratory drive to spinal respiratory motoneurons. *Journal of Neuroscience*, **1989**, 9, 1910-21	6.6	89
112	Are there serotonergic projections from raphe and retrotrapezoid nuclei to the ventral respiratory group in the rat?. *Neuroscience Letters*, **1989**, 105, 34-40	3.3	83
111	Decussation of bulbospinal respiratory axons at the level of the phrenic nuclei in adult rats: a possible substrate for the crossed phrenic phenomenon. *Experimental Neurology*, **1991**, 111, 135-9	5.7	83

110	Interactions among inspiratory neurons in dorsal and ventral respiratory groups in cat medulla. *Journal of Neurophysiology*, **1983**, 49, 472-90	3.2	81
109	Afferent projections to the inspiratory neuronal region of the ventrolateral nucleus of the tractus solitarius in the cat. *Brain Research*, **1979**, 171, 135-41	3.7	81
108	Defining preBötzinger Complex Rhythm- and Pattern-Generating Neural Microcircuits In Vivo. *Neuron*, **2016**, 91, 602-14	13.9	81
107	Glycinergic pacemaker neurons in preBötzinger complex of neonatal mouse. *Journal of Neuroscience*, **2010**, 30, 3634-9	6.6	80
106	Acetylcholine modulates respiratory pattern: effects mediated by M3-like receptors in preBötzinger complex inspiratory neurons. *Journal of Neurophysiology*, **2000**, 83, 1243-52	3.2	77
105	Ventral respiratory group projections to phrenic motoneurons: electron microscopic evidence for monosynaptic connections. *Journal of Comparative Neurology*, **1990**, 302, 707-14	3.4	77
104	Distinct inspiratory rhythm and pattern generating mechanisms in the preBötzinger complex. *Journal of Neuroscience*, **2013**, 33, 9235-45	6.6	75
103	Functional respiratory rhythm generating networks in neonatal mice lacking NMDAR1 gene. *Journal of Neurophysiology*, **1997**, 78, 1414-20	3.2	73
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101	Phrenic motoneuron morphology in the neonatal rat. *Journal of Comparative Neurology*, **1991**, 308, 169-79	3.4	73
100	Efferent projections of excitatory and inhibitory preBötzinger Complex neurons. *Journal of Comparative Neurology*, **2018**, 526, 1389-1402	3.4	71
99	Parvalbumin in respiratory neurons of the ventrolateral medulla of the adult rat. *Journal of Neurocytology*, **2002**, 31, 693-717		71
98	Subnuclear organization of the lateral tegmental field of the rat. II: Catecholamine neurons and ventral respiratory group. *Journal of Comparative Neurology*, **1990**, 294, 212-22	3.4	70
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90	Point:Counterpoint: The parafacial respiratory group (pFRG)/pre-Botzinger complex (preBotC) is the primary site of respiratory rhythm generation in the mammal. Point: the PFRG is the primary site of respiratory rhythm generation in the mammal. *Journal of Applied Physiology*, **2006**, 100, 2094-5	3.7	60
89	Blockade of NMDA receptor-channels by MK-801 alters breathing in adult rats. *Brain Research*, **1992** , 596, 99-110	3.7	60
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86	Facing the challenge of mammalian neural microcircuits: taking a few breaths may help. *Journal of Physiology*, **2015**, 593, 3-23	3.9	58
85	Modulation of inspiratory drive to phrenic motoneurons by presynaptic adenosine A1 receptors. *Journal of Neuroscience*, **1995**, 15, 3458-67	6.6	57
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83	Unilateral ablation of pre-Botzinger complex disrupts breathing during sleep but not wakefulness. *American Journal of Respiratory and Critical Care Medicine*, **2008**, 178, 89-95	10.2	53
82	Concurrent inhibition and excitation of phrenic motoneurons during inspiration: phase-specific control of excitability. *Journal of Neuroscience*, **1999**, 19, 2368-80	6.6	53
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80	Episodic hypoxia evokes long-term facilitation of genioglossus muscle activity in neonatal rats. *Journal of Physiology*, **2004**, 557, 13-8	3.9	50
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78	Nicotinic excitation of rat hypoglossal motoneurons. *Neuroscience*, **2002**, 115, 861-70	3.9	48
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76	Large-scale activity in neural nets I: Theory with application to motoneuron pool responses. *Biological Cybernetics*, **1975**, 17, 29-38	2.8	46
75	Serotonergic inhibition of phrenic motoneuron activity: an in vitro study in neonatal rat. *Neuroscience Letters*, **1997**, 230, 29-32	3.3	44

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64	Neurophysiology of Breathing in Mammals **1986**, 463-524		38
63	Asymmetric control of inspiratory and expiratory phases by excitability in the respiratory network of neonatal mice in vitro. *Journal of Physiology*, **2009**, 587, 1217-31	3.9	36
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59	Micro-agar salt bridge in patch-clamp electrode holder stabilizes electrode potentials. *Journal of Neuroscience Methods*, **2007**, 159, 108-15	3	34
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50	Rhythmogenic neuronal networks, emergent leaders, and k-cores. *Physical Review E*, **2010**, 82, 051911	2.4	26
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48	Silent hypoxaemia in COVID-19 patients. *Journal of Physiology*, **2021**, 599, 1057-1065	3.9	25
47	Emergent Elements of Inspiratory Rhythmogenesis: Network Synchronization and Synchrony Propagation. *Neuron*, **2020**, 106, 482-497.e4	13.9	24
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44	Interventions and Manipulations of Interoception. *Trends in Neurosciences*, **2021**, 44, 52-62	13.3	24
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40	In vitro brainstem-gastric preparation with intact vagi for study of primary visceral afferent input to dorsal vagal complex in caudal medulla. *Journal of the Autonomic Nervous System*, **1995**, 51, 181-9		22
39	Reelin demarcates a subset of pre-Bötzinger complex neurons in adult rat. *Journal of Comparative Neurology*, **2012**, 520, 606-19	3.4	21

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36	Chapter 14--looking forward to breathing. *Progress in Brain Research*, **2011**, 188, 213-8	2.9	20
35	Dynamic modulation of inspiratory drive currents by protein kinase A and protein phosphatases in functionally active motoneurons. *Journal of Neuroscience*, **2003**, 23, 1099-103	6.6	20
34	Nicotine delivery to rats via lung alveolar region-targeted aerosol technology produces blood pharmacokinetics resembling human smoking. *Nicotine and Tobacco Research*, **2013**, 15, 1248-58	4.9	19
33	Dynamic interactions of excitatory and inhibitory inputs in hypoglossal motoneurones: respiratory phasing and modulation by PKA. *Journal of Physiology*, **2004**, 554, 879-89	3.9	19
32	Monosynaptic Projections to Excitatory and Inhibitory preBötzinger Complex Neurons. *Frontiers in Neuroanatomy*, **2020**, 14, 58	3.6	19
31	RT-PCR reveals muscarinic acetylcholine receptor mRNA in the pre-Bötzinger complex. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2001**, 281, L1420-4	5.8	18
30	A network model for control of inspiratory cutoff by the pneumotaxic center with supportive experimental data in cats. *Biological Cybernetics*, **1976**, 21, 131-8	2.8	17
29	Intrinsic and extrinsic factors affecting phrenic motoneuronal excitability in neonatal rats. *Brain Research*, **1997**, 774, 62-8	3.7	16
28	Identifying neurons in the preBötzinger complex that generate respiratory rhythm: visualizing the ghost in the machine. *Journal of Comparative Neurology*, **2001**, 434, 125-7	3.4	16
27	Bulbospinal respiratory neurons are a source of double synapses onto phrenic motoneurons following cervical spinal cord hemisection in adult rats. *Brain Research*, **1993**, 600, 169-73	3.7	16
26	Phasic lung inflation shortens inspiration and respiratory period in the lung-attached neonate rat brain stem spinal cord. *Journal of Neurophysiology*, **2000**, 83, 3165-8	3.2	15
25	Facts and challenges in respiratory neurobiology. *Respiratory Physiology and Neurobiology*, **2018**, 258, 104-107	2.8	14
24	Vagal stimulation induces expiratory lengthening in the in vitro neonate rat. *Journal of Applied Physiology*, **1997**, 83, 1607-11	3.7	13
23	Opioids modulate an emergent rhythmogenic process to depress breathing. *ELife*, **2019**, 8,	8.9	12
22	Pulmonary Afferent Influences on Respiratory Modulation of Sympathetic Discharge **1980**, 172-178		12
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19	Research Priorities for Patients with Heart Failure and Central Sleep Apnea. An Official American Thoracic Society Research Statement. *American Journal of Respiratory and Critical Care Medicine*, **2021**, 203, e11-e24	10.2	9
18	Efficient measurement of endogenous neurotransmitters in small localized regions of central nervous systems in vitro with HPLC. *Journal of Neuroscience Methods*, **2007**, 160, 256-63	3	7
17	The Last Word: Point:Counterpoint authors respond to commentaries on "the parafacial respiratory group (pFRG)/pre-Botzinger complex (preBotC) is the primary site of respiratory rhythm generation in the mammal". *Journal of Applied Physiology*, **2006**, 101, 689	3.7	7
16	Chronic intermittent nicotine delivery via lung alveolar region-targeted aerosol technology produces circadian pharmacokinetics in rats resembling human smokers. *Journal of Applied Physiology*, **2018**, 125, 1555-1562	3.7	5
15	Monosynaptic projections to excitatory and inhibitory preBötzinger Complex neurons		4
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11	Protein kinase G-dependent mechanisms modulate hypoglossal motoneuronal excitability and long-term facilitation. *Journal of Physiology*, **2010**, 588, 4431-9	3.9	3
10	Central neural production of periodic respiratory movements. *Journal of Applied Physiology*, **1982**, 53, 1653-1654	3.7	2
9	Precision Medicine for Breath-Focused Mind-Body Therapies for Stress and Anxiety: Are We Ready Yet?. *Global Advances in Health and Medicine*, **2021**, 10, 2164956120986129	1.9	2
8	Nervous System Research with RIP Conjugates **2014**, 253-269		1
7	Microinjection of (sub)picomoles of excitatory amino acids into cat or rat brainstem alters respiratory and cardiovascular motor control. *Journal of Neuroscience Methods*, **1986**, 17, 186-187	3	1
6	A stereotaxic system for independent coordinated positioning of two or three microelectrodes. *Journal of Neuroscience Methods*, **1982**, 5, 139-46	3	1
5	Inspiratory rhythmogenic activity is burst-independent and opioid-sensitive		1
4	Network synchronization and synchrony propagation: emergent elements of inspiration		1
3	Microcircuit synchronization and heavy tailed synaptic weight distribution in preBötzinger Complex contribute to generation of breathing rhythm		1

2 In vitro studies of mammalian respiration and locomotion. *Journal of Neuroscience Methods*, **1986**, 17, 223-224 3

1 Central neural production of periodic respiratory movements. *Trends in Neurosciences*, **1982**, 5, 257-260 13.3