

# Jean-François Brunet

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3346366/publications.pdf>

Version: 2024-02-01

49  
papers

5,911  
citations

117625

34  
h-index

206112

48  
g-index

53  
all docs

53  
docs citations

53  
times ranked

4506  
citing authors

#	ARTICLE	IF	CITATIONS
1	The homeobox gene Phox2b is essential for the development of autonomic neural crest derivatives. <i>Nature</i> , 1999, 399, 366-370.	27.8	775
2	Spatiotemporal structure of cell fate decisions in murine neural crest. <i>Science</i> , 2019, 364, .	12.6	345
3	Defects in Sensory and Autonomic Ganglia and Absence of Locus Coeruleus in Mice Deficient for the Homeobox Gene Phox2a. <i>Neuron</i> , 1997, 18, 411-423.	8.1	315
4	Phox2b controls the development of peripheral chemoreceptors and afferent visceral pathways. <i>Development (Cambridge)</i> , 2003, 130, 6635-6642.	2.5	279
5	A human mutation in Phox2b causes lack of CO <sub>2</sub> chemosensitivity, fatal central apnea, and specific loss of parafacial neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 1067-1072.	7.1	271
6	The Expression Pattern of the Transcription Factor Phox2 Delineates Synaptic Pathways of the Autonomic Nervous System. <i>Journal of Neuroscience</i> , 1996, 16, 7649-7660.	3.6	266
7	Phox2 genes – from patterning to connectivity. <i>Current Opinion in Genetics and Development</i> , 2002, 12, 435-440.	3.3	222
8	Specification of the Central Noradrenergic Phenotype by the Homeobox Gene Phox2b. <i>Molecular and Cellular Neurosciences</i> , 2000, 15, 235-243.	2.2	198
9	Coordinated temporal and spatial control of motor neuron and serotonergic neuron generation from a common pool of CNS progenitors. <i>Genes and Development</i> , 2003, 17, 729-737.	5.9	196
10	The inducible cytotoxic T-lymphocyte-associated gene transcript CTLA-1 sequence and gene localization to mouse chromosome 14. <i>Nature</i> , 1986, 322, 268-271.	27.8	194
11	Essential role of Gata transcription factors in sympathetic neuron development. <i>Development (Cambridge)</i> , 2004, 131, 4775-4786.	2.5	184
12	Ascl1/Mash1 is required for the development of central serotonergic neurons. <i>Nature Neuroscience</i> , 2004, 7, 589-595.	14.8	172
13	Specification of Neurotransmitter Identity by Phox2 Proteins in Neural Crest Stem Cells. <i>Neuron</i> , 1999, 22, 693-705.	8.1	161
14	Breathing without CO <sub>2</sub> Chemosensitivity in Conditional Phox2b Mutants. <i>Journal of Neuroscience</i> , 2011, 31, 12880-12888.	3.6	149
15	Precranial origin of cranial motoneurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 8727-8732.	7.1	144
16	Molecular consequences of PHOX2B missense, frameshift and alanine expansion mutations leading to autonomic dysfunction. <i>Human Molecular Genetics</i> , 2005, 14, 3697-3708.	2.9	135
17	Task2 potassium channels set central respiratory CO <sub>2</sub> and O <sub>2</sub> sensitivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 2325-2330.	7.1	132
18	Deconstructing cell determination: proneural genes and neuronal identity. <i>BioEssays</i> , 1999, 21, 313-318.	2.5	131

#	ARTICLE	IF	CITATIONS
19	Paired-Like Homeodomain Proteins, Phox2a and Phox2b, Are Responsible for Noradrenergic Cell-Specific Transcription of the Dopamine $\beta$ -Hydroxylase Gene. <i>Journal of Neurochemistry</i> , 1998, 71, 1813-1826.	3.9	123
20	Specific and integrated roles of Lmx1a, Lmx1b and Phox2a in ventral midbrain development. <i>Development (Cambridge)</i> , 2011, 138, 3399-3408.	2.5	119
21	Defective Respiratory Rhythmogenesis and Loss of Central Chemosensitivity in Phox2b Mutants Targeting Retrotrapezoid Nucleus Neurons. <i>Journal of Neuroscience</i> , 2009, 29, 14836-14846.	3.6	115
22	Noradrenergic-Specific Transcription of the Dopamine $\beta$ -Hydroxylase Gene Requires Synergy of Multiple Cis-Acting Elements Including at Least Two Phox2a-Binding Sites. <i>Journal of Neuroscience</i> , 1998, 18, 8247-8260.	3.6	112
23	Dual origin of enteric neurons in vagal Schwann cell precursors and the sympathetic neural crest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11980-11985.	7.1	108
24	Homeoprotein Phox2b commands a somatic-to-visceral switch in cranial sensory pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 20018-20023.	7.1	101
25	Autonomic neurocristopathy-associated mutations in PHOX2B dysregulate Sox10 expression. <i>Journal of Clinical Investigation</i> , 2012, 122, 3145-3158.	8.2	89
26	The retrotrapezoid nucleus neurons expressing Atoh1 and Phox2b are essential for the respiratory response to CO <sub>2</sub> . <i>ELife</i> , 2015, 4, .	6.0	83
27	Delays in neuronal differentiation in Mash1/Ascl1 mutants. <i>Developmental Biology</i> , 2006, 295, 67-75.	2.0	78
28	Genetic identification of a hindbrain nucleus essential for innate vocalization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8095-8100.	7.1	74
29	PHOX2B in respiratory control: Lessons from congenital central hypoventilation syndrome and its mouse models. <i>Respiratory Physiology and Neurobiology</i> , 2009, 168, 125-132.	1.6	63
30	Epibranchial ganglia orchestrate the development of the cranial neurogenic crest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 2066-2071.	7.1	51
31	Dynamic Expression of RGS4 in the Developing Nervous System and Regulation by the Neural Type-Specific Transcription Factor Phox2b. <i>Journal of Neuroscience</i> , 2003, 23, 10613-10621.	3.6	50
32	Breathing with Phox2b. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009, 364, 2477-2483.	4.0	43
33	Ongoing roles of Phox2 homeodomain transcription factors during neuronal differentiation. <i>Development (Cambridge)</i> , 2010, 137, 4211-4220.	2.5	43
34	A Phox2b::FLPo transgenic mouse line suitable for intersectional genetics. <i>Genesis</i> , 2013, 51, 506-514.	1.6	38
35	Ancient origin of somatic and visceral neurons. <i>BMC Biology</i> , 2013, 11, 53.	3.8	38
36	Phox2b, congenital central hypoventilation syndrome and the control of respiration. <i>Seminars in Cell and Developmental Biology</i> , 2010, 21, 814-822.	5.0	37

#	ARTICLE	IF	CITATIONS
37	Forced expression of Phox2 homeodomain transcription factors induces a branchio-visceromotor axonal phenotype. <i>Developmental Biology</i> , 2007, 303, 687-702.	2.0	34
38	<i>In Vitro</i> studies of non poly alanine PHOX2B mutations argue against a loss-of-function mechanism for congenital central hypoventilation. <i>Human Mutation</i> , 2009, 30, E421-E431.	2.5	34
39	Haploinsufficiency for Phox2b in mice causes dilated pupils and atrophy of the ciliary ganglion: mechanistic insights into human congenital central hypoventilation syndrome. <i>Human Molecular Genetics</i> , 2004, 13, 1433-1439.	2.9	31
40	Central chemoreception: Lessons from mouse and human genetics. <i>Respiratory Physiology and Neurobiology</i> , 2010, 173, 312-321.	1.6	28
41	Mutation in <i>LBX1/Lbx1</i> precludes transcription factor cooperativity and causes congenital hypoventilation in humans and mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 13021-13026.	7.1	27
42	The œsacral parasympathetic ontogeny and anatomy of a myth. <i>Clinical Autonomic Research</i> , 2018, 28, 13-21.	2.5	25
43	Role of the Target in the Pathfinding of Facial Visceral Motor Axons. <i>Molecular and Cellular Neurosciences</i> , 2000, 16, 14-26.	2.2	23
44	A medullary centre for lapping in mice. <i>Nature Communications</i> , 2021, 12, 6307.	12.8	19
45	Taste bud formation depends on taste nerves. <i>ELife</i> , 2019, 8, .	6.0	13
46	Phox2b and the homeostatic brain. , 2008, , 25-44.		11
47	<i>Phox2b</i> expression in the taste centers of fish. <i>Journal of Comparative Neurology</i> , 2012, 520, 3633-3649.	1.6	9
48	Tridimensional mapping of Phox2b expressing neurons in the brainstem of adult <i>Macaca fascicularis</i> and identification of the retrotrapezoid nucleus. <i>Journal of Comparative Neurology</i> , 2019, 527, 2875-2884.	1.6	8
49	Molecular Cloning of an Inducible Cytotoxic T-Lymphocyte-Associated Gene (Hu-CTLA 1) and Gene Localization to Human Chromosome 14. , 1989, , 574-577.		0