Jean-FranÃ§ois Brunet

List of Publications by Year
in descending order

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	A medullary centre for lapping in mice. Nature Communications, 2021, 12, 6307.	12.8	19
2	Spatiotemporal structure of cell fate decisions in murine neural crest. Science, 2019, 364, .	12.6	345
3	Tridimensional mapping of Phox2b expressing neurons in the brainstem of adult Macaca fascicularis and identification of the retrotrapezoid nucleus. Journal of Comparative Neurology, 2019, 527, 2875-2884.	1.6	8
4	Taste bud formation depends on taste nerves. ELife, 2019, 8, .	6.0	13
5	The â€œsacral parasympatheticâ€• ontogeny and anatomy of a myth. Clinical Autonomic Research, 2018, 28, 13-21.	2.5	25
6	Mutation in LBX1/Lbx1 precludes transcription factor cooperativity and causes congenital hypoventilation in humans and mice. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 13021-13026.	7.1	27
7	Dual origin of enteric neurons in vagal Schwann cell precursors and the sympathetic neural crest. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11980-11985.	7.1	108
8	Genetic identification of a hindbrain nucleus essential for innate vocalization. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8095-8100.	7.1	74
9	The retrotrapezoid nucleus neurons expressing Atoh1 and Phox2b are essential for the respiratory response to CO2. ELife, 2015, 4, .	6.0	83
10	A Phox2b::FLPo transgenic mouse line suitable for intersectional genetics. Genesis, 2013, 51, 506-514.	1.6	38
11	Ancient origin of somatic and visceral neurons. BMC Biology, 2013, 11, 53.	3.8	38
12	Phox2b expression in the taste centers of fish. Journal of Comparative Neurology, 2012, 520, 3633-3649.	1.6	9
13	Autonomic neurocristopathy-associated mutations in PHOX2B dysregulate Sox10 expression. Journal of Clinical Investigation, 2012, 122, 3145-3158.	8.2	89
14	Specific and integrated roles of Lmx1a, Lmx1b and Phox2a in ventral midbrain development. Development (Cambridge), 2011, 138, 3399-3408.	2.5	119
15	Breathing without CO₂Chemosensitivity in ConditionalPhox2bMutants. Journal of Neuroscience, 2011, 31, 12880-12888.	3.6	149
16	Homeoprotein Phox2b commands a somatic-to-visceral switch in cranial sensory pathways. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20018-20023.	7.1	101
17	Central chemoreception: Lessons from mouse and human genetics. Respiratory Physiology and Neurobiology, 2010, 173, 312-321.	1.6	28
18	Ongoing roles of Phox2 homeodomain transcription factors during neuronal differentiation. Development (Cambridge), 2010, 137, 4211-4220.	2.5	43

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19	Task2 potassium channels set central respiratory CO ₂ and O ₂ sensitivity. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2325-2330.	7.1	132
20	Epibranchial ganglia orchestrate the development of the cranial neurogenic crest. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2066-2071.	7.1	51
21	Phox2b, congenital central hypoventilation syndrome and the control of respiration. Seminars in Cell and Developmental Biology, 2010, 21, 814-822.	5.0	37
22	Defective Respiratory Rhythmogenesis and Loss of Central Chemosensitivity in Phox2b Mutants Targeting Retrotrapezoid Nucleus Neurons. Journal of Neuroscience, 2009, 29, 14836-14846.	3.6	115
23	Breathing withPhox2b. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 2477-2483.	4.0	43
24	PHOX2B in respiratory control: Lessons from congenital central hypoventilation syndrome and its mouse models. Respiratory Physiology and Neurobiology, 2009, 168, 125-132.	1.6	63
25	In Vitrostudies of non poly alanine PHOX2B mutations argue against a loss-of-function mechanism for congenital central hypoventilation. Human Mutation, 2009, 30, E421-E431.	2.5	34
26	A human mutation in Phox2b causes lack of CO ₂ chemosensitivity, fatal central apnea, and specific loss of parafacial neurons. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1067-1072.	7.1	271
27	Phox2b and the homeostatic brain. , 2008, , 25-44.		11
28	Forced expression of Phox2 homeodomain transcription factors induces a branchio-visceromotor axonal phenotype. Developmental Biology, 2007, 303, 687-702.	2.0	34
29	Delays in neuronal differentiation in Mash1/Ascl1 mutants. Developmental Biology, 2006, 295, 67-75.	2.0	78
30	Precraniate origin of cranial motoneurons. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8727-8732.	7.1	144
31	Molecular consequences of PHOX2B missense, frameshift and alanine expansion mutations leading to autonomic dysfunction. Human Molecular Genetics, 2005, 14, 3697-3708.	2.9	135
32	Haploinsufficiency for Phox2b in mice causes dilated pupils and atrophy of the ciliary ganglion: mechanistic insights into human congenital central hypoventilation syndrome. Human Molecular Genetics, 2004, 13, 1433-1439.	2.9	31
33	Essential role of Gata transcription factors in sympathetic neuron development. Development (Cambridge), 2004, 131, 4775-4786.	2.5	184
34	Ascl1/Mash1 is required for the development of central serotonergic neurons. Nature Neuroscience, 2004, 7, 589-595.	14.8	172
35	Phox2b controls the development of peripheral chemoreceptors and afferent visceral pathways. Development (Cambridge), 2003, 130, 6635-6642.	2.5	279
36	Coordinated temporal and spatial control of motor neuron and serotonergic neuron generation from a common pool of CNS progenitors. Genes and Development, 2003, 17, 729-737.	5.9	196

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37	Dynamic Expression ofRGS4in the Developing Nervous System and Regulation by the Neural Type-Specific Transcription Factor Phox2b. Journal of Neuroscience, 2003, 23, 10613-10621.	3.6	50
38	Phox2 genes â€" from patterning to connectivity. Current Opinion in Genetics and Development, 2002, 12, 435-440.	3.3	222
39	Specification of the Central Noradrenergic Phenotype by the Homeobox Gene Phox2b. Molecular and Cellular Neurosciences, 2000, 15, 235-243.	2.2	198
40	Role of the Target in the Pathfinding of Facial Visceral Motor Axons. Molecular and Cellular Neurosciences, 2000, 16, 14-26.	2.2	23
41	The homeobox gene Phox2b is essential for the development of autonomic neural crest derivatives. Nature, 1999, 399, 366-370.	27.8	775
42	Deconstructing cell determination: proneural genes and neuronal identity. BioEssays, 1999, 21, 313-318.	2.5	131
43	Specification of Neurotransmitter Identity by Phox2 Proteins in Neural Crest Stem Cells. Neuron, 1999, 22, 693-705.	8.1	161
44	Noradrenergic-Specific Transcription of the Dopamine Î²-Hydroxylase Gene Requires Synergy of MultipleCis-Acting Elements Including at Least Two Phox2a-Binding Sites. Journal of Neuroscience, 1998, 18, 8247-8260.	3.6	112
45	Pairedâ€Like Homeodomain Proteins, Phox2a and Phox2b, Are Responsible for Noradrenergic Cellâ€Specific Transcription of the Dopamine Î²â€Hydroxylase Gene. Journal of Neurochemistry, 1998, 71, 1813-1826.	3.9	123
46	Defects in Sensory and Autonomic Ganglia and Absence of Locus Coeruleus in Mice Deficient for the Homeobox Gene Phox2a. Neuron, 1997, 18, 411-423.	8.1	315
47	The Expression Pattern of the Transcription Factor Phox2 Delineates Synaptic Pathways of the Autonomic Nervous System. Journal of Neuroscience, 1996, 16, 7649-7660.	3.6	266
48	Molecular Cloning of an Inducible Cytotoxic T-Lymphocyte-Associated Gene (Hu-CTLA 1) and Gene Localization to Human Chromosome 14. , 1989, , 574-577.		0
49	The inducible cytotoxic T-lymphocyte-associated gene transcript CTLA-1 sequence and gene localization to mouse chromosome 14. Nature, 1986, 322, 268-271.	27.8	194