Patrick Charnay

List of Publications by Year
in descending order

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30 papers	3,967 citations	257357 24 h-index	454834 30 g-index
30 all docs	30 docs citations	30 times ranked	3283 citing authors

#	Article	IF	Citations
1	Krox-20 controls myelination in the peripheral nervous system. Nature, 1994, 371, 796-799.	13.7	731
2	Neurofibromas in NF1: Schwann Cell Origin and Role of Tumor Environment. Science, 2002, 296, 920-922.	6.0	568
3	Segment-specific expression of a zinc-finger gene in the developing nervous system of the mouse. Nature, 1989, 337, 461-464.	13.7	513
4	Disruption of Krox-20 results in alteration of rhombomeres 3 and 5 in the developing hindbrain. Cell, 1993, 75, 1199-1214.	13.5	454
5	Neural crest boundary cap cells constitute a source of neuronal and glial cells of the PNS. Nature Neuroscience, 2004, 7, 930-938.	7.1	227
6	Control of myelination in Schwann cells: a Krox20 cis â€regulatory element integrates Oct6, Brn2 and Sox10 activities. EMBO Reports, 2006, 7, 52-58.	2.0	153
7	Expression pattern of aKrox-20/Cre knock-in allele in the developing hindbrain, bones, and peripheral nervous system. Genesis, 2000, 26, 123-126.	0.8	151
8	Peripheral Myelin Maintenance Is a Dynamic Process Requiring Constant Krox20 Expression. Journal of Neuroscience, 2006, 26, 9771-9779.	1.7	145
9	Integrity of Developing Spinal Motor Columns Is Regulated by Neural Crest Derivatives at Motor Exit Points. Neuron, 2003, 37, 403-415.	3.8	119
10	Zinc finger-DNA recognition: analysis of base specificity by site-directed mutagenesis. Nucleic Acids Research, 1992, 20, 4137-4144.	6.5	102
11	Krox-20 patterns the hindbrain through both cell-autonomous and non cell-autonomous mechanisms. Genes and Development, 2001, 15, 567-580.	2.7	100
12	Hindbrain patterning:Krox20couples segmentation and specification of regional identity. Development (Cambridge), 2001, 128, 4967-4978.	1.2	85
13	Boundary Caps Give Rise to Neurogenic Stem Cells and Terminal Glia in the Skin. Stem Cell Reports, 2015, 5, 278-290.	2.3	58
14	Cellular Origin, Tumor Progression, and Pathogenic Mechanisms of Cutaneous Neurofibromas Revealed by Mice withNf1Knockout in Boundary Cap Cells. Cancer Discovery, 2019, 9, 130-147.	7.7	57
15	Novel features of boundary cap cells revealed by the analysis of newly identified molecular markers. Glia, 2009, 57, 1450-1457.	2.5	55
16	CNS/PNS Boundary Transgression by Central Glia in the Absence of Schwann Cells or Krox20/Egr2 Function. Journal of Neuroscience, 2010, 30, 5958-5967.	1.7	54
17	Boundary cap cells are peripheral nervous system stem cells that can be redirected into central nervous system lineages. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10714-10719.	3.3	49
18	Hindbrain patterning requires fine-tuning of early krox20 transcription by Sprouty 4. Development (Cambridge), 2011, 138, 317-326.	1.2	45

#	Article	IF	Citations
19	Krox20 hindbrain cis-regulatory landscape: interplay between multiple long-range initiation and autoregulatory elements. Development (Cambridge), 2006, 133, 1253-1262.	1.2	39
20	Ebf factors and MyoD cooperate to regulate muscle relaxation via Atp2a1. Nature Communications, 2014, 5, 3793.	5.8	36
21	Rostral hindbrain patterning involves the direct activation of a Krox20 transcriptional enhancer by Hox/Pbx and Meis factors. Development (Cambridge), 2008, 135, 3369-3378.	1.2	34
22	Prss56, a novel marker of adult neurogenesis in the mouse brain. Brain Structure and Function, 2016, 221, 4411-4427.	1.2	32
23	Pattern of expression of the transcription factor Krox-20 in mouse hair follicle. Mechanisms of Development, 2000, 96, 215-218.	1.7	30
24	Dissection of a Krox20 positive feedback loop driving cell fate choices in hindbrain patterning. Molecular Systems Biology, 2013, 9, 690.	3.2	29
25	Cooperation, cis-interactions, versatility and evolutionary plasticity of multiple cis-acting elements underlie krox20 hindbrain regulation. PLoS Genetics, 2018, 14, e1007581.	1.5	21
26	Molecular dissection of segment formation in the developing hindbrain. Development (Cambridge), 2015, 142, 185-195.	1.2	20
27	PIASxÎ² acts as an activator of Hoxb1 and is antagonized by Krox20 during hindbrain segmentation. EMBO Journal, 2006, 25, 2432-2442.	3.5	19
28	Krox20 hindbrain regulation incorporates multiple modes of cooperation between cis-acting elements. PLoS Genetics, 2017, 13, e1006903.	1.5	18
29	Cthrc1 is a negative regulator of myelination in schwann cells. Glia, 2012, 60, 393-403.	2.5	12
30	Dok4 is involved in Schwann cell myelination and axonal interaction in vitro. Glia, 2011, 59, 351-362.	2.5	11