Marten P Smidt

List of Publications by Year in Descending Order

101 papers	5,551 citations	38 h-index	73 g-index
108 ext. papers	6,348 ext. citations	6.8 avg, IF	5.64 L-index

#	Paper	IF	Citations
101	Mice hypomorphic for Pitx3 show robust entrainment of circadian behavioral and metabolic rhythms to scheduled feeding.. *Cell Reports*, **2022**, 38, 109865	10.6	2
100	Advancing urban mental health research: from complexity science to actionable targets for intervention. *Lancet Psychiatry,the*, **2021**, 8, 991-1000	23.3	13
99	Is Involved in Subset Specification of Mesodiencephalic Dopaminergic Neurons. *Biomedicines*, **2021**, 9,	4.8	1
98	deletion in human embryonic stem cells leads to ectopic activation of SVA retrotransposons and up-regulation of KRAB zinc finger gene clusters. *Genome Research*, **2021**, 31, 551-563	9.7	3
97	Cue and Reward Evoked Dopamine Activity Is Necessary for Maintaining Learned Pavlovian Associations. *Journal of Neuroscience*, **2021**, 41, 5004-5014	6.6	1
96	The continued need for animals to advance brain research. *Neuron*, **2021**, 109, 2374-2379	13.9	9
95	Tcf4 is required for correct brain development during embryogenesis. *Molecular and Cellular Neurosciences*, **2020**, 106, 103502	4.8	10
94	Acquisition of the Midbrain Dopaminergic Neuronal Identity. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	8
93	Entanglement of Genetics and Epigenetics in Parkinson's Disease. *Frontiers in Neuroscience*, **2019**, 13, 277	5.1	28
92	Influences Correct Post-mitotic Coding of Mesodiencephalic Dopaminergic Neurons. *Frontiers in Molecular Neuroscience*, **2019**, 12, 62	6.1	3
91	EZH2 Is Essential for Fate Determination in the Mammalian Isthmic Area. *Frontiers in Molecular Neuroscience*, **2019**, 12, 76	6.1	2
90	Characterization of transgenic mouse models targeting neuromodulatory systems reveals organizational principles of the dorsal raphe. *Nature Communications*, **2019**, 10, 4633	17.4	18
89	MCL1 as a Therapeutic Target in Parkinson's Disease?. *Trends in Molecular Medicine*, **2019**, 25, 1056-1065	11.5	6
88	EZH2 Influences mdDA Neuronal Differentiation, Maintenance and Survival. *Frontiers in Molecular Neuroscience*, **2018**, 11, 491	6.1	7
87	miR-34b/c Regulates Wnt1 and Enhances Mesencephalic Dopaminergic Neuron Differentiation. *Stem Cell Reports*, **2018**, 10, 1237-1250	8	23
86	Expression analyzes of early factors in midbrain differentiation programs. *Gene Expression Patterns*, **2018**, 27, 8-15	1.5	6
85	Survival of midbrain dopamine neurons depends on the Bcl2 factor Mcl1. *Cell Death Discovery*, **2018**, 4, 107	6.9	12

84	Pitx3 and En1 determine the size and molecular programming of the dopaminergic neuronal pool. *PLoS ONE*, **2017**, 12, e0182421	3.7	9
83	Embryonic development of selectively vulnerable neurons in Parkinson's disease. *Npj Parkinson's Disease*, **2017**, 3, 21	9.7	12
82	Molecular Programming of Mesodiencephalic Dopaminergic Neuronal Subsets. *Frontiers in Neuroanatomy*, **2017**, 11, 59	3.6	7
81	Is Involved in Early Cell-Fate Determination and Subset Specification of Midbrain Dopamine Neurons. *Frontiers in Molecular Neuroscience*, **2017**, 10, 353	6.1	20
80	FoxO6 affects Plxna4-mediated neuronal migration during mouse cortical development. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E7087-E7096	11.5	13
79	Is Essential for the Development and Maintenance of a SNc Neuronal Subset. *Frontiers in Molecular Neuroscience*, **2016**, 9, 166	6.1	9
78	Engrailed 1 shapes the dopaminergic and serotonergic landscape through proper isthmic organizer maintenance and function. *Biology Open*, **2016**, 5, 279-88	2.2	8
77	FoxK2 is required for cellular proliferation and survival. *Journal of Cellular Physiology*, **2015**, 230, 1013-23	7	17
76	Distinct temporal expression of 5-HT(1A) and 5-HT(2A) receptors on cerebellar granule cells in mice. *Cerebellum*, **2014**, 13, 491-500	4.3	17
75	Detailed analysis of the genetic and epigenetic signatures of iPSC-derived mesodiencephalic dopaminergic neurons. *Stem Cell Reports*, **2014**, 2, 520-33	8	34
74	Insulin-FOXO3 signaling modulates circadian rhythms via regulation of clock transcription. *Current Biology*, **2014**, 24, 1248-55	6.3	60
73	Mesodiencephalic dopaminergic neuronal differentiation does not involve GLI2A-mediated SHH-signaling and is under the direct influence of canonical WNT signaling. *PLoS ONE*, **2014**, 9, e97926	3.7	25
72	Molecular mechanisms of dopaminergic subset specification: fundamental aspects and clinical perspectives. *Cellular and Molecular Life Sciences*, **2014**, 71, 4703-27	10.3	40
71	Lmx1a is an activator of Rgs4 and Grb10 and is responsible for the correct specification of rostral and medial mdDA neurons. *European Journal of Neuroscience*, **2013**, 37, 23-32	3.5	17
70	Epigenetic mechanisms in the development and maintenance of dopaminergic neurons. *Development (Cambridge)*, **2013**, 140, 1159-69	6.6	43
69	The BCL2 code to dopaminergic development and Parkinson's disease. *Trends in Molecular Medicine* , **2013**, 19, 211-6	11.5	14
68	Specification of dopaminergic subsets involves interplay of En1 and Pitx3. *Development (Cambridge)*, **2013**, 140, 3373-84	6.6	58
67	S-nitrosylation of HDAC2 regulates the expression of the chromatin-remodeling factor Brm during radial neuron migration. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 3113-8	11.5	45

66	Specification of dopaminergic subsets involves interplay of En1 and Pitx3. *Development (Cambridge)*, **2013**, 140, 4116-4116	6.6	3
65	LMX1B is part of a transcriptional complex with PSPC1 and PSF. *PLoS ONE*, **2013**, 8, e53122	3.7	14
64	Molecular marker differences relate to developmental position and subsets of mesodiencephalic dopaminergic neurons. *PLoS ONE*, **2013**, 8, e76037	3.7	30
63	The serotonin 5-HT3 receptor: a novel neurodevelopmental target. *Frontiers in Cellular Neuroscience*, **2013**, 7, 76	6.1	43
62	Subset specification of central serotonergic neurons. *Frontiers in Cellular Neuroscience*, **2013**, 7, 200	6.1	16
61	Lmx1a encodes a rostral set of mesodiencephalic dopaminergic neurons marked by the Wnt/B-catenin signaling activator R-spondin 2. *PLoS ONE*, **2013**, 8, e74049	3.7	25
60	Prenatal fluoxetine exposure induces life-long serotonin 5-HT receptor-dependent cortical abnormalities and anxiety-like behaviour. *Neuropharmacology*, **2012**, 62, 865-70	5.5	66
59	Morphine withdrawal enhances constitutive opioid receptor activity in the ventral tegmental area. *Journal of Neuroscience*, **2012**, 32, 16120-8	6.6	41
58	Spatial and temporal lineage analysis of a Pitx3-driven Cre-recombinase knock-in mouse model. *PLoS ONE*, **2012**, 7, e42641	3.7	15
57	Genome wide expression profiling of the mesodiencephalic region identifies novel factors involved in early and late dopaminergic development. *Biology Open*, **2012**, 1, 693-704	2.2	35
56	Phox2b influences the development of a caudal dopaminergic subset. *PLoS ONE*, **2012**, 7, e52118	3.7	6
55	En1 and Wnt signaling in midbrain dopaminergic neuronal development. *Neural Development*, **2011**, 6, 23	3.9	53
54	Retinoic acid-dependent and -independent gene-regulatory pathways of Pitx3 in meso-diencephalic dopaminergic neurons. *Development (Cambridge)*, **2011**, 138, 5213-22	6.6	51
53	Microphthalmia, parkinsonism, and enhanced nociception in Pitx3 (416insG) mice. *Mammalian Genome*, **2010**, 21, 13-27	3.2	31
52	Pitx3 potentiates Nurr1 in dopamine neuron terminal differentiation through release of SMRT-mediated repression. *Development (Cambridge)*, **2009**, 136, 531-40	6.6	123
51	Semaphorin 3F is a bifunctional guidance cue for dopaminergic axons and controls their fasciculation, channeling, rostral growth, and intracortical targeting. *Journal of Neuroscience*, **2009**, 29, 12542-57	6.6	86
50	Identification of Dlk1, Ptpru and Klhl1 as novel Nurr1 target genes in meso-diencephalic dopamine neurons. *Development (Cambridge)*, **2009**, 136, 2363-73	6.6	73
49	Specific vulnerability of substantia nigra compacta neurons. *Journal of Neural Transmission Supplementum*, **2009**, 39-47		1

48	A passport to neurotransmitter identity. *Genome Biology*, **2009**, 10, 229	18.3	3
47	Terminal Differentiation of Mesodiencephalic Dopaminergic Neurons:. *Advances in Experimental Medicine and Biology*, **2009**, 47-57	3.6	19
46	Development and engineering of dopamine neurons. Preface. *Advances in Experimental Medicine and Biology*, **2009**, 651, v-vi	3.6	3
45	Terminal differentiation ofmesodiencephalic dopaminergic neurons: the role of Nurr1 and Pitx3. *Advances in Experimental Medicine and Biology*, **2009**, 651, 47-57	3.6	12
44	Alterations in serotonin signalling are involved in the hyperactivity of Pitx3-deficient mice. *European Journal of Neuroscience*, **2008**, 27, 388-95	3.5	18
43	Phenotypic segregation of aphakia and Pitx3-null mutants reveals that Pitx3 deficiency increases consolidation of specific movement components. *Behavioural Brain Research*, **2008**, 186, 208-14	3.4	15
42	Modulation of serotonin transporter function during fetal development causes dilated heart cardiomyopathy and lifelong behavioral abnormalities. *PLoS ONE*, **2008**, 3, e2782	3.7	117
41	How to make a mesodiencephalic dopaminergic neuron. *Nature Reviews Neuroscience*, **2007**, 8, 21-32	13.5	294
40	Retinoic acid counteracts developmental defects in the substantia nigra caused by Pitx3 deficiency. *Development (Cambridge)*, **2007**, 134, 2673-84	6.6	105
39	Absence of Ret signaling in mice causes progressive and late degeneration of the nigrostriatal system. *PLoS Biology*, **2007**, 5, e39	9.7	144
38	Identification of forkhead transcription factors in cortical and dopaminergic areas of the adult murine brain. *Brain Research*, **2006**, 1068, 23-33	3.7	25
37	Spatial and temporal expression of FoxO transcription factors in the developing and adult murine brain. *Gene Expression Patterns*, **2006**, 6, 134-40	1.5	142
36	Neurohypophysial dysmorphogenesis in mice lacking the homeobox gene Uncx4.1. *Journal of Molecular Endocrinology*, **2006**, 36, 65-71	4.5	12
35	Slow progressive degeneration of nigral dopaminergic neurons in postnatal Engrailed mutant mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 15242-7	11.5	109
34	In control of biology: of mice, men and Foxes. *Biochemical Journal*, **2006**, 397, 233-46	3.8	121
33	Developmental origin and fate of meso-diencephalic dopamine neurons. *Progress in Neurobiology*, **2006**, 78, 1-16	10.9	96
32	Insulin signaling in the central nervous system: learning to survive. *Progress in Neurobiology*, **2006**, 79, 205-21	10.9	322
31	Molecular programming of stem cells into mesodiencephalic dopaminergic neurons. *Trends in Neurosciences*, **2006**, 29, 601-3	13.3	39

30	Pitx3 deficiency in mice affects cholinergic modulation of GABAergic synapses in the nucleus accumbens. *Journal of Neurophysiology*, **2006**, 96, 2034-41	3.2	2
29	Strategies to unravel molecular codes essential for the development of meso-diencephalic dopaminergic neurons. *Journal of Physiology*, **2006**, 575, 397-402	3.9	3
28	Molecular and cellular alterations in the Pitx3-deficient midbrain dopaminergic system. *Molecular and Cellular Neurosciences*, **2005**, 30, 352-63	4.8	28
27	Response to Simeone: Coexpression of Pitx3 with tyrosine hydroxylase in midbrain dopaminergic neurons. *Trends in Neurosciences*, **2005**, 28, 65-66	13.3	11
26	FoxO6 transcriptional activity is regulated by Thr26 and Ser184, independent of nucleo-cytoplasmic shuttling. *Biochemical Journal*, **2005**, 391, 623-9	3.8	84
25	Cloning and analysis of the murine Foxi2 transcription factor. *Biochimica Et Biophysica Acta Gene Regulatory Mechanisms*, **2005**, 1731, 133-8		7
24	Regulation of FoxO activity by CBP/p300-mediated acetylation. *Trends in Biochemical Sciences*, **2005**, 30, 81-6	10.3	146
23	U-SPECT-I: a novel system for submillimeter-resolution tomography with radiolabeled molecules in mice. *Journal of Nuclear Medicine*, **2005**, 46, 1194-200	8.9	188
22	The neuregulin receptor, ErbB4, is not required for normal development and adult maintenance of the substantia nigra pars compacta. *Journal of Neurochemistry*, **2004**, 91, 1302-11	6	38
21	Early developmental failure of substantia nigra dopamine neurons in mice lacking the homeodomain gene Pitx3. *Development (Cambridge)*, **2004**, 131, 1145-55	6.6	255
20	Homeobox gene Pitx3 and its role in the development of dopamine neurons of the substantia nigra. *Cell and Tissue Research*, **2004**, 318, 35-43	4.2	98
19	The ins and outs of FoxO shuttling: mechanisms of FoxO translocation and transcriptional regulation. *Biochemical Journal*, **2004**, 380, 297-309	3.8	556
18	Species differences in brain pre-pro-neurotensin/neuromedin N mRNA distribution: the expression pattern in mice resembles more closely that of primates than rats. *Molecular Brain Research*, **2004**, 125, 22-8		17
17	Transcription factors in the development of midbrain dopamine neurons. *Annals of the New York Academy of Sciences*, **2003**, 991, 61-8	6.5	58
16	Molecular mechanisms underlying midbrain dopamine neuron development and function. *European Journal of Pharmacology*, **2003**, 480, 75-88	5.3	67
15	Modulation of cellular activity and synaptic transmission in the ventral tegmental area. *European Journal of Pharmacology*, **2003**, 480, 97-115	5.3	33
14	Homeobox gene repertoire in adult rat dorsal root ganglia. *Neuroscience Research Communications*, **2003**, 32, 49-59		2
13	Involvement of Nurr1 in specifying the neurotransmitter identity of ventral midbrain dopaminergic neurons. *European Journal of Neuroscience*, **2003**, 18, 1731-8	3.5	157

12	FoxO6, a novel member of the FoxO class of transcription factors with distinct shuttling dynamics. *Journal of Biological Chemistry*, **2003**, 278, 35959-67	5.4	256
11	CNS expression pattern of Lmx1b and coexpression with ptx genes suggest functional cooperativity in the development of forebrain motor control systems. *Molecular and Cellular Neurosciences*, **2002**, 21, 410-20	4.8	45
10	A response element for the homeodomain transcription factor Ptx3 in the tyrosine hydroxylase gene promoter. *Journal of Neurochemistry*, **2000**, 74, 1829-37	6	74
9	Analysis of three Ptx2 splice variants on transcriptional activity and differential expression pattern in the brain. *Journal of Neurochemistry*, **2000**, 75, 1818-25	6	33
8	A second independent pathway for development of mesencephalic dopaminergic neurons requires Lmx1b. *Nature Neuroscience*, **2000**, 3, 337-41	25.5	322
7	The bZip transcription factor vitellogenin-binding protein is post transcriptional down regulated in chicken liver. *FEBS Journal*, **1998**, 256, 106-11		1
6	Hypothalamic transcription factors and the regulation of the hypothalamo-neurohypophysial system. *Advances in Experimental Medicine and Biology*, **1998**, 449, 29-37	3.6	8
5	Cloning and characterisation of a nuclear, site specific ssDNA binding protein. *Nucleic Acids Research*, **1995**, 23, 2389-95	20.1	37
4	Binding of a bZip protein to the estrogen-inducible apoVLDL II promoter. *Biochimica Et Biophysica Acta Gene Regulatory Mechanisms*, **1994**, 1219, 115-20		6
3	Identification of chloroacetaldehyde dehydrogenase involved in 1,2-dichloroethane degradation. *Applied and Environmental Microbiology*, **1994**, 60, 1599-605	4.8	26
2	Involvement of an Intracellular Oligogalacturonate Hydrolase in Metabolism of Pectin by Clostridium thermosaccharolyticum. *Applied and Environmental Microbiology*, **1993**, 59, 837-42	4.8	5
1	Mice hypomorphic for Pitx3 define a minimal dopamine neuron population sufficient for entraining behavior and metabolism to scheduled feeding		1