

Marten P Smidt

List of Publications by Citations

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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	The ins and outs of FoxO shuttling: mechanisms of FoxO translocation and transcriptional regulation. <i>Biochemical Journal</i> , 2004 , 380, 297-309	3.8	556
100	Insulin signaling in the central nervous system: learning to survive. <i>Progress in Neurobiology</i> , 2006 , 79, 205-21	10.9	322
99	A second independent pathway for development of mesencephalic dopaminergic neurons requires Lmx1b. <i>Nature Neuroscience</i> , 2000 , 3, 337-41	25.5	322
98	How to make a mesodiencephalic dopaminergic neuron. <i>Nature Reviews Neuroscience</i> , 2007 , 8, 21-32	13.5	294
97	FoxO6, a novel member of the FoxO class of transcription factors with distinct shuttling dynamics. <i>Journal of Biological Chemistry</i> , 2003 , 278, 35959-67	5.4	256
96	Early developmental failure of substantia nigra dopamine neurons in mice lacking the homeodomain gene Pitx3. <i>Development (Cambridge)</i> , 2004 , 131, 1145-55	6.6	255
95	U-SPECT-I: a novel system for submillimeter-resolution tomography with radiolabeled molecules in mice. <i>Journal of Nuclear Medicine</i> , 2005 , 46, 1194-200	8.9	188
94	Involvement of Nurr1 in specifying the neurotransmitter identity of ventral midbrain dopaminergic neurons. <i>European Journal of Neuroscience</i> , 2003 , 18, 1731-8	3.5	157
93	Regulation of FoxO activity by CBP/p300-mediated acetylation. <i>Trends in Biochemical Sciences</i> , 2005 , 30, 81-6	10.3	146
92	Absence of Ret signaling in mice causes progressive and late degeneration of the nigrostriatal system. <i>PLoS Biology</i> , 2007 , 5, e39	9.7	144
91	Spatial and temporal expression of FoxO transcription factors in the developing and adult murine brain. <i>Gene Expression Patterns</i> , 2006 , 6, 134-40	1.5	142
90	Pitx3 potentiates Nurr1 in dopamine neuron terminal differentiation through release of SMRT-mediated repression. <i>Development (Cambridge)</i> , 2009 , 136, 531-40	6.6	123
89	In control of biology: of mice, men and Foxes. <i>Biochemical Journal</i> , 2006 , 397, 233-46	3.8	121
88	Modulation of serotonin transporter function during fetal development causes dilated heart cardiomyopathy and lifelong behavioral abnormalities. <i>PLoS ONE</i> , 2008 , 3, e2782	3.7	117
87	Slow progressive degeneration of nigral dopaminergic neurons in postnatal Engrailed mutant mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 15242-7	11.5	109
86	Retinoic acid counteracts developmental defects in the substantia nigra caused by Pitx3 deficiency. <i>Development (Cambridge)</i> , 2007 , 134, 2673-84	6.6	105
85	Homeobox gene Pitx3 and its role in the development of dopamine neurons of the substantia nigra. <i>Cell and Tissue Research</i> , 2004 , 318, 35-43	4.2	98

84	Developmental origin and fate of meso-diencephalic dopamine neurons. <i>Progress in Neurobiology</i> , 2006 , 78, 1-16	10.9	96
83	Semaphorin 3F is a bifunctional guidance cue for dopaminergic axons and controls their fasciculation, channeling, rostral growth, and intracortical targeting. <i>Journal of Neuroscience</i> , 2009 , 29, 12542-57	6.6	86
82	FoxO6 transcriptional activity is regulated by Thr26 and Ser184, independent of nucleo-cytoplasmic shuttling. <i>Biochemical Journal</i> , 2005 , 391, 623-9	3.8	84
81	A response element for the homeodomain transcription factor Ptx3 in the tyrosine hydroxylase gene promoter. <i>Journal of Neurochemistry</i> , 2000 , 74, 1829-37	6	74
80	Identification of Dlk1, Ptpru and Klhl1 as novel Nurr1 target genes in meso-diencephalic dopamine neurons. <i>Development (Cambridge)</i> , 2009 , 136, 2363-73	6.6	73
79	Molecular mechanisms underlying midbrain dopamine neuron development and function. <i>European Journal of Pharmacology</i> , 2003 , 480, 75-88	5.3	67
78	Prenatal fluoxetine exposure induces life-long serotonin 5-HT _{1A} receptor-dependent cortical abnormalities and anxiety-like behaviour. <i>Neuropharmacology</i> , 2012 , 62, 865-70	5.5	66
77	Insulin-FOXO3 signaling modulates circadian rhythms via regulation of clock transcription. <i>Current Biology</i> , 2014 , 24, 1248-55	6.3	60
76	Specification of dopaminergic subsets involves interplay of En1 and Pitx3. <i>Development (Cambridge)</i> , 2013 , 140, 3373-84	6.6	58
75	Transcription factors in the development of midbrain dopamine neurons. <i>Annals of the New York Academy of Sciences</i> , 2003 , 991, 61-8	6.5	58
74	En1 and Wnt signaling in midbrain dopaminergic neuronal development. <i>Neural Development</i> , 2011 , 6, 23	3.9	53
73	Retinoic acid-dependent and -independent gene-regulatory pathways of Pitx3 in meso-diencephalic dopaminergic neurons. <i>Development (Cambridge)</i> , 2011 , 138, 5213-22	6.6	51
72	S-nitrosylation of HDAC2 regulates the expression of the chromatin-remodeling factor Brm during radial neuron migration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 3113-8	11.5	45
71	CNS expression pattern of Lmx1b and coexpression with ptx genes suggest functional cooperativity in the development of forebrain motor control systems. <i>Molecular and Cellular Neurosciences</i> , 2002 , 21, 410-20	4.8	45
70	Epigenetic mechanisms in the development and maintenance of dopaminergic neurons. <i>Development (Cambridge)</i> , 2013 , 140, 1159-69	6.6	43
69	The serotonin 5-HT ₃ receptor: a novel neurodevelopmental target. <i>Frontiers in Cellular Neuroscience</i> , 2013 , 7, 76	6.1	43
68	Morphine withdrawal enhances constitutive μ opioid receptor activity in the ventral tegmental area. <i>Journal of Neuroscience</i> , 2012 , 32, 16120-8	6.6	41
67	Molecular mechanisms of dopaminergic subset specification: fundamental aspects and clinical perspectives. <i>Cellular and Molecular Life Sciences</i> , 2014 , 71, 4703-27	10.3	40

66	Molecular programming of stem cells into mesodiencephalic dopaminergic neurons. <i>Trends in Neurosciences</i> , 2006 , 29, 601-3	13.3	39
65	The neuregulin receptor, ErbB4, is not required for normal development and adult maintenance of the substantia nigra pars compacta. <i>Journal of Neurochemistry</i> , 2004 , 91, 1302-11	6	38
64	Cloning and characterisation of a nuclear, site specific ssDNA binding protein. <i>Nucleic Acids Research</i> , 1995 , 23, 2389-95	20.1	37
63	Genome wide expression profiling of the mesodiencephalic region identifies novel factors involved in early and late dopaminergic development. <i>Biology Open</i> , 2012 , 1, 693-704	2.2	35
62	Detailed analysis of the genetic and epigenetic signatures of iPSC-derived mesodiencephalic dopaminergic neurons. <i>Stem Cell Reports</i> , 2014 , 2, 520-33	8	34
61	Analysis of three Ptx2 splice variants on transcriptional activity and differential expression pattern in the brain. <i>Journal of Neurochemistry</i> , 2000 , 75, 1818-25	6	33
60	Modulation of cellular activity and synaptic transmission in the ventral tegmental area. <i>European Journal of Pharmacology</i> , 2003 , 480, 97-115	5.3	33
59	Microphthalmia, parkinsonism, and enhanced nociception in Pitx3 (416insG) mice. <i>Mammalian Genome</i> , 2010 , 21, 13-27	3.2	31
58	Molecular marker differences relate to developmental position and subsets of mesodiencephalic dopaminergic neurons. <i>PLoS ONE</i> , 2013 , 8, e76037	3.7	30
57	Entanglement of Genetics and Epigenetics in Parkinson's Disease. <i>Frontiers in Neuroscience</i> , 2019 , 13, 277	5.1	28
56	Molecular and cellular alterations in the Pitx3-deficient midbrain dopaminergic system. <i>Molecular and Cellular Neurosciences</i> , 2005 , 30, 352-63	4.8	28
55	Identification of chloroacetaldehyde dehydrogenase involved in 1,2-dichloroethane degradation. <i>Applied and Environmental Microbiology</i> , 1994 , 60, 1599-605	4.8	26
54	Mesodiencephalic dopaminergic neuronal differentiation does not involve GLI2A-mediated SHH-signaling and is under the direct influence of canonical WNT signaling. <i>PLoS ONE</i> , 2014 , 9, e97926	3.7	25
53	Identification of forkhead transcription factors in cortical and dopaminergic areas of the adult murine brain. <i>Brain Research</i> , 2006 , 1068, 23-33	3.7	25
52	Lmx1a encodes a rostral set of mesodiencephalic dopaminergic neurons marked by the Wnt/B-catenin signaling activator R-spondin 2. <i>PLoS ONE</i> , 2013 , 8, e74049	3.7	25
51	miR-34b/c Regulates Wnt1 and Enhances Mesencephalic Dopaminergic Neuron Differentiation. <i>Stem Cell Reports</i> , 2018 , 10, 1237-1250	8	23
50	Is Involved in Early Cell-Fate Determination and Subset Specification of Midbrain Dopamine Neurons. <i>Frontiers in Molecular Neuroscience</i> , 2017 , 10, 353	6.1	20
49	Terminal Differentiation of Mesodiencephalic Dopaminergic Neurons. <i>Advances in Experimental Medicine and Biology</i> , 2009 , 47-57	3.6	19

48	Characterization of transgenic mouse models targeting neuromodulatory systems reveals organizational principles of the dorsal raphe. <i>Nature Communications</i> , 2019 , 10, 4633	17.4	18
47	Alterations in serotonin signalling are involved in the hyperactivity of Pitx3-deficient mice. <i>European Journal of Neuroscience</i> , 2008 , 27, 388-95	3.5	18
46	FoxK2 is required for cellular proliferation and survival. <i>Journal of Cellular Physiology</i> , 2015 , 230, 1013-23		17
45	Distinct temporal expression of 5-HT(1A) and 5-HT(2A) receptors on cerebellar granule cells in mice. <i>Cerebellum</i> , 2014 , 13, 491-500	4.3	17
44	Lmx1a is an activator of Rgs4 and Grb10 and is responsible for the correct specification of rostral and medial mdDA neurons. <i>European Journal of Neuroscience</i> , 2013 , 37, 23-32	3.5	17
43	Species differences in brain pre-pro-neurotensin/neuromedin N mRNA distribution: the expression pattern in mice resembles more closely that of primates than rats. <i>Molecular Brain Research</i> , 2004 , 125, 22-8		17
42	Subset specification of central serotonergic neurons. <i>Frontiers in Cellular Neuroscience</i> , 2013 , 7, 200	6.1	16
41	Spatial and temporal lineage analysis of a Pitx3-driven Cre-recombinase knock-in mouse model. <i>PLoS ONE</i> , 2012 , 7, e42641	3.7	15
40	Phenotypic segregation of aphakia and Pitx3-null mutants reveals that Pitx3 deficiency increases consolidation of specific movement components. <i>Behavioural Brain Research</i> , 2008 , 186, 208-14	3.4	15
39	The BCL2 code to dopaminergic development and Parkinson's disease. <i>Trends in Molecular Medicine</i> , 2013 , 19, 211-6	11.5	14
38	LMX1B is part of a transcriptional complex with PSPC1 and PSF. <i>PLoS ONE</i> , 2013 , 8, e53122	3.7	14
37	FoxO6 affects Plxna4-mediated neuronal migration during mouse cortical development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E7087-E7096	11.5	13
36	Advancing urban mental health research: from complexity science to actionable targets for intervention. <i>Lancet Psychiatry</i> , 2021 , 8, 991-1000	23.3	13
35	Embryonic development of selectively vulnerable neurons in Parkinson's disease. <i>Npj Parkinson's Disease</i> , 2017 , 3, 21	9.7	12
34	Neurohypophysial dysmorphogenesis in mice lacking the homeobox gene Uncx4.1. <i>Journal of Molecular Endocrinology</i> , 2006 , 36, 65-71	4.5	12
33	Survival of midbrain dopamine neurons depends on the Bcl2 factor Mcl1. <i>Cell Death Discovery</i> , 2018 , 4, 107	6.9	12
32	Terminal differentiation of mesodiencephalic dopaminergic neurons: the role of Nurr1 and Pitx3. <i>Advances in Experimental Medicine and Biology</i> , 2009 , 651, 47-57	3.6	12
31	Response to Simeone: Coexpression of Pitx3 with tyrosine hydroxylase in midbrain dopaminergic neurons. <i>Trends in Neurosciences</i> , 2005 , 28, 65-66	13.3	11

30	Tcf4 is required for correct brain development during embryogenesis. <i>Molecular and Cellular Neurosciences</i> , 2020 , 106, 103502	4.8	10
29	Pitx3 and En1 determine the size and molecular programming of the dopaminergic neuronal pool. <i>PLoS ONE</i> , 2017 , 12, e0182421	3.7	9
28	Is Essential for the Development and Maintenance of a SNc Neuronal Subset. <i>Frontiers in Molecular Neuroscience</i> , 2016 , 9, 166	6.1	9
27	The continued need for animals to advance brain research. <i>Neuron</i> , 2021 , 109, 2374-2379	13.9	9
26	Acquisition of the Midbrain Dopaminergic Neuronal Identity. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	8
25	Engrailed 1 shapes the dopaminergic and serotonergic landscape through proper isthmus organizer maintenance and function. <i>Biology Open</i> , 2016 , 5, 279-88	2.2	8
24	Hypothalamic transcription factors and the regulation of the hypothalamo-neurohypophysial system. <i>Advances in Experimental Medicine and Biology</i> , 1998 , 449, 29-37	3.6	8
23	EZH2 Influences mdDA Neuronal Differentiation, Maintenance and Survival. <i>Frontiers in Molecular Neuroscience</i> , 2018 , 11, 491	6.1	7
22	Molecular Programming of Mesodiencephalic Dopaminergic Neuronal Subsets. <i>Frontiers in Neuroanatomy</i> , 2017 , 11, 59	3.6	7
21	Cloning and analysis of the murine Foxi2 transcription factor. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2005 , 1731, 133-8		7
20	Expression analyzes of early factors in midbrain differentiation programs. <i>Gene Expression Patterns</i> , 2018 , 27, 8-15	1.5	6
19	MCL1 as a Therapeutic Target in Parkinson's Disease?. <i>Trends in Molecular Medicine</i> , 2019 , 25, 1056-1065	11.5	6
18	Binding of a bZip protein to the estrogen-inducible apoVLDL II promoter. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1994 , 1219, 115-20		6
17	Phox2b influences the development of a caudal dopaminergic subset. <i>PLoS ONE</i> , 2012 , 7, e52118	3.7	6
16	Involvement of an Intracellular Oligogalacturonate Hydrolase in Metabolism of Pectin by <i>Clostridium thermosaccharolyticum</i> . <i>Applied and Environmental Microbiology</i> , 1993 , 59, 837-42	4.8	5
15	Influences Correct Post-mitotic Coding of Mesodiencephalic Dopaminergic Neurons. <i>Frontiers in Molecular Neuroscience</i> , 2019 , 12, 62	6.1	3
14	Specification of dopaminergic subsets involves interplay of En1 and Pitx3. <i>Development (Cambridge)</i> , 2013 , 140, 4116-4116	6.6	3
13	A passport to neurotransmitter identity. <i>Genome Biology</i> , 2009 , 10, 229	18.3	3

12	Strategies to unravel molecular codes essential for the development of meso-diencephalic dopaminergic neurons. <i>Journal of Physiology</i> , 2006 , 575, 397-402	3.9	3
11	deletion in human embryonic stem cells leads to ectopic activation of SVA retrotransposons and up-regulation of KRAB zinc finger gene clusters. <i>Genome Research</i> , 2021 , 31, 551-563	9.7	3
10	Development and engineering of dopamine neurons. Preface. <i>Advances in Experimental Medicine and Biology</i> , 2009 , 651, v-vi	3.6	3
9	EZH2 Is Essential for Fate Determination in the Mammalian Isthmic Area. <i>Frontiers in Molecular Neuroscience</i> , 2019 , 12, 76	6.1	2
8	Pitx3 deficiency in mice affects cholinergic modulation of GABAergic synapses in the nucleus accumbens. <i>Journal of Neurophysiology</i> , 2006 , 96, 2034-41	3.2	2
7	Homeobox gene repertoire in adult rat dorsal root ganglia. <i>Neuroscience Research Communications</i> , 2003 , 32, 49-59		2
6	Mice hypomorphic for Pitx3 show robust entrainment of circadian behavioral and metabolic rhythms to scheduled feeding.. <i>Cell Reports</i> , 2022 , 38, 109865	10.6	2
5	Specific vulnerability of substantia nigra compacta neurons. <i>Journal of Neural Transmission Supplementum</i> , 2009 , 39-47		1
4	The bZip transcription factor vitellogenin-binding protein is post transcriptional down regulated in chicken liver. <i>FEBS Journal</i> , 1998 , 256, 106-11		1
3	Mice hypomorphic for Pitx3 define a minimal dopamine neuron population sufficient for entraining behavior and metabolism to scheduled feeding		1
2	Is Involved in Subset Specification of Mesodiencephalic Dopaminergic Neurons. <i>Biomedicines</i> , 2021 , 9,	4.8	1
1	Cue and Reward Evoked Dopamine Activity Is Necessary for Maintaining Learned Pavlovian Associations. <i>Journal of Neuroscience</i> , 2021 , 41, 5004-5014	6.6	1