

# Martin Rath

## List of Publications by Year in descending order

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49  
papers

1,746  
citations

318942

23  
h-index

312153

41  
g-index

49  
all docs

49  
docs citations

49  
times ranked

2459  
citing authors

#	ARTICLE	IF	CITATIONS
1	Genetic ablation of the Bsx homeodomain transcription factor in zebrafish: Impact on mature pineal gland morphology and circadian behavior. <i>Journal of Pineal Research</i> , 2022, 72, .	3.4	4
2	An ultrastructural study of the deep pineal gland of the Sprague Dawley rat using transmission and serial block face scanning electron microscopy: cell types, barriers, and innervation. <i>Cell and Tissue Research</i> , 2022, 389, 531-546.	1.5	2
3	The role of homeobox gene-encoded transcription factors in regulation of phototransduction: Implementing the primary pinealocyte culture as a photoreceptor model. <i>Journal of Pineal Research</i> , 2021, 71, e12753.	3.4	5
4	The Circadian Oscillator of the Cerebellum: Triiodothyronine Regulates Clock Gene Expression in Granule Cells in vitro and in the Cerebellum of Neonatal Rats in vivo. <i>Frontiers in Physiology</i> , 2021, 12, 706433.	1.3	2
5	Editorial: Transcription Regulationâ€”Brain Development and Homeostasisâ€”A Finely Tuned and Orchestrated Scenario in Physiology and Pathology. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 834607.	1.4	2
6	Rhythmic Release of Corticosterone Induces Circadian Clock Gene Expression in the Cerebellum. <i>Neuroendocrinology</i> , 2020, 110, 604-615.	1.2	15
7	The <i>Lhx4</i> homeobox transcript in the rat pineal gland: Adrenergic regulation and impact on transcripts encoding melatonin-synthesizing enzymes. <i>Journal of Pineal Research</i> , 2020, 68, e12616.	3.4	14
8	Circadian regulation and molecular role of the <i>Bsx</i> homeobox gene in the adult pineal gland. <i>Journal of Pineal Research</i> , 2020, 68, e12629.	3.4	10
9	Single Cell Sequencing of the Pineal Gland: The Next Chapter. <i>Frontiers in Endocrinology</i> , 2019, 10, 590.	1.5	8
10	Homeobox genes in melatonin-producing pinealocytes: <i>Otx2</i> and <i>Crx</i> act to promote hormone synthesis in the mature rat pineal gland. <i>Journal of Pineal Research</i> , 2019, 66, e12567.	3.4	19
11	MobiSeq: De novo SNP discovery in model and non-model species through sequencing the flanking region of transposable elements. <i>Molecular Ecology Resources</i> , 2019, 19, 512-525.	2.2	4
12	The Circadian Oscillator of the Cerebral Cortex: Molecular, Biochemical and Behavioral Effects of Deleting the <i>Arntl</i> Clock Gene in Cortical Neurons. <i>Cerebral Cortex</i> , 2018, 28, 644-657.	1.6	21
13	The accessory magnocellular neurosecretory system of the rostral human hypothalamus. <i>Cell and Tissue Research</i> , 2018, 373, 487-498.	1.5	10
14	Cerebral influx of Na <sup>+</sup> and Cl <sup>-</sup> as the osmotherapy-mediated rebound response in rats. <i>Fluids and Barriers of the CNS</i> , 2018, 15, 27.	2.4	10
15	Single-cell RNA sequencing of the mammalian pineal gland identifies two pinealocyte subtypes and cell type-specific daily patterns of gene expression. <i>PLoS ONE</i> , 2018, 13, e0205883.	1.1	38
16	Spinal dorsal horn astrocytes release GABA in response to synaptic activation. <i>Journal of Physiology</i> , 2018, 596, 4983-4994.	1.3	47
17	Diurnal expression of proteins in the retina of the blind cone-rod homeobox ( <i>Crx</i> <sup>Δ</sup> ) mouse and the 129/Sv mouse: a proteomic study. <i>Acta Ophthalmologica</i> , 2017, 95, 717-726.	0.6	6
18	Deleting the <i>Arntl</i> clock gene in the granular layer of the mouse cerebellum: impact on the molecular circadian clockwork. <i>Journal of Neurochemistry</i> , 2017, 142, 841-856.	2.1	9

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19	A modulatory role of the <i>Rax</i> homeobox gene in mature pineal gland function: Investigating the photoneuroendocrine circadian system of a <i>Rax</i> conditional knockout mouse. <i>Journal of Neurochemistry</i> , 2017, 143, 100-111.	2.1	9
20	Melatonin Synthesis: Acetylserotonin O-Methyltransferase (ASMT) Is Strongly Expressed in a Subpopulation of Pinealocytes in the Male Rat Pineal Gland. <i>Endocrinology</i> , 2016, 157, 2028-2040.	1.4	53
21	The <i>Lhx9</i> homeobox gene controls pineal gland development and prevents postnatal hydrocephalus. <i>Brain Structure and Function</i> , 2015, 220, 1497-1509.	1.2	44
22	Circadian System Development and Plasticity. <i>BioMed Research International</i> , 2014, 2014, 1-2.	0.9	0
23	Homeobox Genes and Melatonin Synthesis: Regulatory Roles of the Cone-Rod Homeobox Transcription Factor in the Rodent Pineal Gland. <i>BioMed Research International</i> , 2014, 2014, 1-8.	0.9	13
24	Circadian Dynamics of the Cone-Rod Homeobox (CRX) Transcription Factor in the Rat Pineal Gland and Its Role in Regulation of Arylalkylamine N-Acetyltransferase (AANAT). <i>Endocrinology</i> , 2014, 155, 2966-2975.	1.4	29
25	Circadian oscillators in the mouse brain: molecular clock components in the neocortex and cerebellar cortex. <i>Cell and Tissue Research</i> , 2014, 357, 743-755.	1.5	32
26	Homeobox Genes in the Rodent Pineal Gland: Roles in Development and Phenotype Maintenance. <i>Neurochemical Research</i> , 2013, 38, 1100-1112.	1.6	39
27	Developmental and Diurnal Expression of the Synaptosomal-Associated Protein 25 (Snap25) in the Rat Pineal Gland. <i>Neurochemical Research</i> , 2013, 38, 1219-1228.	1.6	6
28	Circadian clock components in the rat neocortex: daily dynamics, localization and regulation. <i>Brain Structure and Function</i> , 2013, 218, 551-562.	1.2	42
29	Hypothalamic Neurosecretory and Circadian Vasopressinergic Neuronal Systems in the Blind Cone-Rod Homeobox Knockout Mouse ( <i>Crx</i> <sup>Δ</sup> ) and the 129sv Wild-Type Mouse. <i>Journal of Comparative Neurology</i> , 2013, 521, 4061-4074.	0.9	3
30	Circadian changes in long noncoding RNAs in the pineal gland. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 13319-13324.	3.3	83
31	Circadian Oscillations of Molecular Clock Components in the Cerebellar Cortex of the Rat. <i>Chronobiology International</i> , 2012, 29, 1289-1299.	0.9	30
32	<i>Rax</i> : developmental and daily expression patterns in the rat pineal gland and retina. <i>Journal of Neurochemistry</i> , 2011, 118, 999-1007.	2.1	23
33	<i>Crx</i> broadly modulates the pineal transcriptome. <i>Journal of Neurochemistry</i> , 2011, 119, 262-274.	2.1	25
34	Global daily dynamics of the pineal transcriptome. <i>Cell and Tissue Research</i> , 2011, 344, 1-11.	1.5	21
35	A neuroanatomical and physiological study of the non-image forming visual system of the cone-rod homeobox gene ( <i>Crx</i> ) knock out mouse. <i>Brain Research</i> , 2010, 1343, 54-65.	1.1	12
36	A standardized surgical technique for rat superior cervical ganglionectomy. <i>Journal of Neuroscience Methods</i> , 2010, 192, 22-33.	1.3	57

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37	Thyroid hormone and adrenergic signaling interact to control pineal expression of the dopamine receptor D4 gene ( <i>Drd4</i> ). <i>Molecular and Cellular Endocrinology</i> , 2010, 314, 128-135.	1.6	37
38	Pineal function: Impact of microarray analysis. <i>Molecular and Cellular Endocrinology</i> , 2010, 314, 170-183.	1.6	43
39	Developmental and Diurnal Dynamics of Pax4 Expression in the Mammalian Pineal Gland: Nocturnal Down-Regulation Is Mediated by Adrenergic-Cyclic Adenosine 3',5'-Monophosphate Signaling. <i>Endocrinology</i> , 2009, 150, 803-811.	1.4	49
40	Developmental and daily expression of the <i>Pax4</i> and <i>Pax6</i> homeobox genes in the rat retina: localization of Pax4 in photoreceptor cells. <i>Journal of Neurochemistry</i> , 2009, 108, 285-294.	2.1	37
41	Muscleblind-like 2: circadian expression in the mammalian pineal gland is controlled by an adrenergic cAMP mechanism. <i>Journal of Neurochemistry</i> , 2009, 110, 756-764.	2.1	7
42	Expression of the homeobox genes <i>PAX6</i> , <i>OTX2</i> , and <i>OTX1</i> in the early human fetal retina. <i>International Journal of Developmental Neuroscience</i> , 2009, 27, 485-492.	0.7	40
43	Night/Day Changes in Pineal Expression of >600 Genes. <i>Journal of Biological Chemistry</i> , 2009, 284, 7606-7622.	1.6	130
44	Localization and regulation of dopamine receptor D4 expression in the adult and developing rat retina. <i>Experimental Eye Research</i> , 2008, 87, 471-477.	1.2	48
45	MicroRNA expression in the adult mouse central nervous system. <i>Rna</i> , 2008, 14, 432-444.	1.6	427
46	Ontogenetic expression of the <i>Otx2</i> and <i>Crx</i> homeobox genes in the retina of the rat. <i>Experimental Eye Research</i> , 2007, 85, 65-73.	1.2	53
47	NeuroD1: developmental expression and regulated genes in the rodent pineal gland. <i>Journal of Neurochemistry</i> , 2007, 102, 887-899.	2.1	43
48	The Perivascular Phagocyte of the Mouse Pineal Gland: an Antigen-Presenting Cell. <i>Chronobiology International</i> , 2006, 23, 393-401.	0.9	22
49	Expression of the <i>Otx2</i> homeobox gene in the developing mammalian brain: embryonic and adult expression in the pineal gland. <i>Journal of Neurochemistry</i> , 2006, 97, 556-566.	2.1	63