

# Erik S Musiek

## List of Publications by Year in descending order

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76  
papers

6,027  
citations

109264

35  
h-index

106281

65  
g-index

79  
all docs

79  
docs citations

79  
times ranked

8581  
citing authors

#	ARTICLE	IF	CITATIONS
1	Three dimensions of the amyloid hypothesis: time, space and 'wingmen'. <i>Nature Neuroscience</i> , 2015, 18, 800-806.	7.1	582
2	Mechanisms linking circadian clocks, sleep, and neurodegeneration. <i>Science</i> , 2016, 354, 1004-1008.	6.0	542
3	Circadian clock proteins regulate neuronal redox homeostasis and neurodegeneration. <i>Journal of Clinical Investigation</i> , 2013, 123, 5389-5400.	3.9	393
4	Association between circadian rhythms and neurodegenerative diseases. <i>Lancet Neurology</i> , The, 2019, 18, 307-318.	4.9	384
5	Sleep, circadian rhythms, and the pathogenesis of Alzheimer Disease. <i>Experimental and Molecular Medicine</i> , 2015, 47, e148-e148.	3.2	375
6	Quantification of F2-isoprostanes as a biomarker of oxidative stress. <i>Nature Protocols</i> , 2007, 2, 221-226.	5.5	290
7	Circadian Rest-Activity Pattern Changes in Aging and Preclinical Alzheimer Disease. <i>JAMA Neurology</i> , 2018, 75, 582.	4.5	285
8	Timing of expression of the core clock gene <i>Bmal1</i> influences its effects on aging and survival. <i>Science Translational Medicine</i> , 2016, 8, 324ra16.	5.8	249
9	15-Hydroxyprostaglandin Dehydrogenase Is Down-regulated in Colorectal Cancer. <i>Journal of Biological Chemistry</i> , 2005, 280, 3217-3223.	1.6	242
10	Neuropsychiatric signs and symptoms of Alzheimer's disease: New treatment paradigms. <i>Alzheimer's and Dementia: Translational Research and Clinical Interventions</i> , 2017, 3, 440-449.	1.8	240
11	Circadian clock protein Rev-erb $\alpha$ regulates neuroinflammation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 5102-5107.	3.3	164
12	Direct comparison of fluorodeoxyglucose positron emission tomography and arterial spin labeling magnetic resonance imaging in Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2012, 8, 51-59.	0.4	149
13	Dural lymphatics regulate clearance of extracellular tau from the CNS. <i>Molecular Neurodegeneration</i> , 2019, 14, 11.	4.4	134
14	Regulation of amyloid- $\beta$ dynamics and pathology by the circadian clock. <i>Journal of Experimental Medicine</i> , 2018, 215, 1059-1068.	4.2	123
15	Electrophilic Cyclopentenone Neuroprostanes Are Anti-inflammatory Mediators Formed from the Peroxidation of the $\omega$ -3 Polyunsaturated Fatty Acid Docosahexaenoic Acid. <i>Journal of Biological Chemistry</i> , 2008, 283, 19927-19935.	1.6	122
16	Recent advances in the biochemistry and clinical relevance of the isoprostane pathway. <i>Lipids</i> , 2005, 40, 987-994.	0.7	105
17	Cell-Autonomous Regulation of Astrocyte Activation by the Circadian Clock Protein BMAL1. <i>Cell Reports</i> , 2018, 25, 1-9.e5.	2.9	100
18	Circadian clock disruption in neurodegenerative diseases: cause and effect?. <i>Frontiers in Pharmacology</i> , 2015, 6, 29.	1.6	99

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19	<i>Chi311</i> /YKL-40 is controlled by the astrocyte circadian clock and regulates neuroinflammation and Alzheimer's disease pathogenesis. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	98
20	Cyclopentenone Isoprostanes Inhibit the Inflammatory Response in Macrophages. <i>Journal of Biological Chemistry</i> , 2005, 280, 35562-35570.	1.6	86
21	Inhibition of REV-ERBs stimulates microglial amyloid-beta clearance and reduces amyloid plaque deposition in the 5XFAD mouse model of Alzheimer's disease. <i>Aging Cell</i> , 2020, 19, e13078.	3.0	81
22	Cyclopentenone isoprostanes are novel bioactive products of lipid oxidation which enhance neurodegeneration. <i>Journal of Neurochemistry</i> , 2006, 97, 1301-1313.	2.1	75
23	The wrinkling of time: Aging, inflammation, oxidative stress, and the circadian clock in neurodegeneration. <i>Neurobiology of Disease</i> , 2020, 139, 104832.	2.1	72
24	Quantification of F-ring isoprostane-like compounds (F4-neuroprostanes) derived from docosahexaenoic acid in vivo in humans by a stable isotope dilution mass spectrometric assay. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004, 799, 95-102.	1.2	70
25	Regiochemistry of Neuroprostanes Generated from the Peroxidation of Docosahexaenoic Acid in Vitro and in Vivo. <i>Journal of Biological Chemistry</i> , 2005, 280, 26600-26611.	1.6	65
26	Circadian rhythm-dependent and circadian rhythm-independent impacts of the molecular clock on type 3 innate lymphoid cells. <i>Science Immunology</i> , 2019, 4, .	5.6	65
27	Origins of Alzheimer's disease. <i>Current Opinion in Neurology</i> , 2012, 25, 715-720.	1.8	62
28	Alzheimer's Disease and Sleep-Wake Disturbances: Amyloid, Astrocytes, and Animal Models. <i>Journal of Neuroscience</i> , 2018, 38, 2901-2910.	1.7	56
29	Cyclopentenone Eicosanoids as Mediators of Neurodegeneration: A Pathogenic Mechanism of Oxidative Stress-Mediated and Cyclooxygenase-Mediated Neurotoxicity. <i>Brain Pathology</i> , 2005, 15, 149-158.	2.1	51
30	Prolonged $\alpha$ -Tocopherol Deficiency Decreases Oxidative Stress and Unmasks $\alpha$ -Tocopherol-dependent Regulation of Mitochondrial Function in the Brain. <i>Journal of Biological Chemistry</i> , 2008, 283, 6915-6924.	1.6	43
31	REV-ERB $\alpha$ mediates complement expression and diurnal regulation of microglial synaptic phagocytosis. <i>ELife</i> , 2020, 9, .	2.8	42
32	Molecular Clocks in Pharmacology. <i>Handbook of Experimental Pharmacology</i> , 2013, , 243-260.	0.9	41
33	The Cyclopentenone Product of Lipid Peroxidation, 15-A $\alpha$ -Isoprostane, Is Efficiently Metabolized by HepG2 Cells via Conjugation with Glutathione. <i>Chemical Research in Toxicology</i> , 2004, 17, 17-25.	1.7	40
34	The Cyclopentenone (A $\alpha$ /J $\alpha$ ) Isoprostanes—Unique, Highly Reactive Products of Arachidonate Peroxidation. <i>Antioxidants and Redox Signaling</i> , 2005, 7, 210-220.	2.5	39
35	Neurotoxic lipid peroxidation species formed by ischemic stroke increase injury. <i>Free Radical Biology and Medicine</i> , 2009, 47, 1422-1431.	1.3	38
36	Essential Role of the Redox-Sensitive Kinase p66 <sup>shc</sup> in Determining Energetic and Oxidative Status and Cell Fate in Neuronal Preconditioning. <i>Journal of Neuroscience</i> , 2010, 30, 5242-5252.	1.7	35

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37	The Longitudinal Early-Onset Alzheimer's Disease Study (LEADS): Framework and methodology. <i>Alzheimer's and Dementia</i> , 2021, 17, 2043-2055.	0.4	34
38	Circadian regulation of astrocyte function: implications for Alzheimer's disease. <i>Cellular and Molecular Life Sciences</i> , 2020, 77, 1049-1058.	2.4	32
39	Knitting Up the Raveled Sleeve of Care. <i>Science Translational Medicine</i> , 2013, 5, 212rv3.	5.8	31
40	The fatty acid oxidation product 15 <i>Δ</i> -isoprostane is a potent inhibitor of NF- $\kappa$ B transcription and macrophage transformation. <i>Journal of Neurochemistry</i> , 2011, 119, 604-616.	2.1	26
41	Circadian Rhythms in AD Pathogenesis: a Critical Appraisal. <i>Current Sleep Medicine Reports</i> , 2017, 3, 85-92.	0.7	26
42	Nmnat1 protects neuronal function without altering phospho-tau pathology in a mouse model of tauopathy. <i>Annals of Clinical and Translational Neurology</i> , 2016, 3, 434-442.	1.7	23
43	Sharper in the morning: Cognitive time of day effects revealed with high-frequency smartphone testing. <i>Journal of Clinical and Experimental Neuropsychology</i> , 2021, 43, 825-837.	0.8	22
44	Astrocytes deficient in circadian clock gene <i>Bmal1</i> show enhanced activation responses to amyloid-beta pathology without changing plaque burden. <i>Scientific Reports</i> , 2022, 12, 1796.	1.6	22
45	Aducanumab for Alzheimer disease: the amyloid hypothesis moves from bench to bedside. <i>Journal of Clinical Investigation</i> , 2021, 131, .	3.9	21
46	Pharmacological activation of the nuclear receptor REV-ERB reverses cognitive deficits and reduces amyloid- $\beta$ burden in a mouse model of Alzheimer's disease. <i>PLoS ONE</i> , 2019, 14, e0215004.	1.1	19
47	Electrophilic Cyclopentenone Isoprostanes in Neurodegeneration. <i>Journal of Molecular Neuroscience</i> , 2007, 33, 80-86.	1.1	18
48	Phenotypic Similarities Between Late-Onset Autosomal Dominant and Sporadic Alzheimer Disease. <i>JAMA Neurology</i> , 2016, 73, 1125.	4.5	17
49	Targeting Sleep and Circadian Function in the Prevention of Alzheimer Disease. <i>JAMA Neurology</i> , 2022, 79, 835.	4.5	12
50	Evaluation of SAMP8 Mice as a Model for Sleep-Wake and Rhythm Disturbances Associated with Alzheimer's Disease: Impact of Treatment with the Dual Orexin (Hypocretin) Receptor Antagonist Lemborexant. <i>Journal of Alzheimer's Disease</i> , 2021, 81, 1151-1167.	1.2	11
51	Facial tic associated with lamotrigine in adults. <i>Movement Disorders</i> , 2010, 25, 1512-1513.	2.2	10
52	Alzheimer disease: current concepts & future directions. <i>Missouri Medicine</i> , 2013, 110, 395-400.	0.3	10
53	Feasibility of estimation of brain volume and 2-deoxy-2-(18)F-fluoro-D-glucose metabolism using a novel automated image analysis method: application in Alzheimer's disease. <i>Hellenic Journal of Nuclear Medicine</i> , 2012, 15, 190-6.	0.2	10
54	F2-isoprostanes as Markers of Oxidant Stress: An Overview. <i>Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al ]</i> , 2005, 24, Unit 17.5.	1.1	8

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55	p66shc's role as an essential mitophaghic molecule in controlling neuronal redox and energetic tone. <i>Autophagy</i> , 2010, 6, 948-949.	4.3	8
56	Impact of circadian and diurnal rhythms on cellular metabolic function and neurodegenerative diseases. <i>International Review of Neurobiology</i> , 2020, 154, 393-412.	0.9	5
57	Endothelial ether lipids link the vasculature to blood pressure, behavior, and neurodegeneration. <i>Journal of Lipid Research</i> , 2021, 62, 100079.	2.0	5
58	Long-Term Vitamin E Deficiency in Mice Decreases Superoxide Radical Production in Brain. <i>Annals of the New York Academy of Sciences</i> , 2004, 1031, 428-431.	1.8	4
59	Quantification of F 2 $\alpha$ -isoprostanes by Gas Chromatography/Mass Spectrometry as a Measure of Oxidant Stress. <i>Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al ]</i> , 2005, 24, Unit 17.6.	1.1	3
60	Investigation of Nonneoplastic Neurologic Disorders with PET and MRI. <i>PET Clinics</i> , 2008, 3, 317-334.	1.5	3
61	Mystery Case: A young woman with isolated upbeatng nystagmus. <i>Neurology</i> , 2015, 84, e17-9.	1.5	3
62	Quantification of Isoprostanes as an Index of Oxidative Stress: A Update. <i>Journal of Biological Sciences</i> , 2006, 6, 469-479.	0.1	3
63	Rev-erbs and Glia $\alpha$ Implications for Neurodegenerative Diseases. <i>Journal of Experimental Neuroscience</i> , 2019, 13, 117906951985323.	2.3	1
64	Neuroinflammation: Friend or foe?. <i>Science Translational Medicine</i> , 2015, 7, .	5.8	1
65	Validation of blood-based transcriptomic circadian phenotyping in older adults. <i>Sleep</i> , 2022, 45, .	0.6	1
66	Sleep and clocks $\alpha$ implications for brain health. <i>Neurobiology of Sleep and Circadian Rhythms</i> , 2017, 2, 1-3.	1.4	0
67	Circadian fragmentation: a harbinger of Alzheimer's disease?. <i>The Lancet Healthy Longevity</i> , 2020, 1, e90-e91.	2.0	0
68	Stopping Seizures After Brain Injury. <i>Science Translational Medicine</i> , 2014, 6, .	5.8	0
69	Young Blood Rejuvenates the Aging Brain. <i>Science Translational Medicine</i> , 2014, 6, .	5.8	0
70	Shedding (UV) Light on Multiple Sclerosis. <i>Science Translational Medicine</i> , 2014, 6, .	5.8	0
71	Toxic Proteins on the Move. <i>Science Translational Medicine</i> , 2014, 6, .	5.8	0
72	Neuroprotective Drug Gives a Nod to NAD. <i>Science Translational Medicine</i> , 2014, 6, .	5.8	0

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73	Tau-Chopping Enzyme Adds Fuel to the Neurodegeneration Fire. Science Translational Medicine, 2014, 6, .	5.8	0
74	Protein Clearance Ain't What It Used to Be. Science Translational Medicine, 2014, 6, .	5.8	0
75	Preventing an unholy alliance. Science Translational Medicine, 2015, 7, .	5.8	0
76	Cell-Autonomous Regulation of Astrocyte Activation by the Circadian Clock Protein BMAL1. SSRN Electronic Journal, 0, , .	0.4	0