

# Ethan D Buhr

## List of Publications by Year in descending order

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34  
papers

7,978  
citations

304743

22  
h-index

434195

31  
g-index

35  
all docs

35  
docs citations

35  
times ranked

7153  
citing authors

#	ARTICLE	IF	CITATIONS
1	PERIOD2::LUCIFERASE real-time reporting of circadian dynamics reveals persistent circadian oscillations in mouse peripheral tissues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 5339-5346.	7.1	2,032
2	Disruption of the clock components CLOCK and BMAL1 leads to hypoinsulinaemia and diabetes. <i>Nature</i> , 2010, 466, 627-631.	27.8	1,261
3	Circadian Clock Feedback Cycle Through NAMPT-Mediated NAD <sup>+</sup> Biosynthesis. <i>Science</i> , 2009, 324, 651-654.	12.6	992
4	Temperature as a Universal Resetting Cue for Mammalian Circadian Oscillators. <i>Science</i> , 2010, 330, 379-385.	12.6	745
5	Intercellular Coupling Confers Robustness against Mutations in the SCN Circadian Clock Network. <i>Cell</i> , 2007, 129, 605-616.	28.9	676
6	Molecular Components of the Mammalian Circadian Clock. <i>Handbook of Experimental Pharmacology</i> , 2013, , 3-27.	1.8	544
7	A noncanonical E-box enhancer drives mouse Period2 circadian oscillations in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 2608-2613.	7.1	272
8	The mouse Clock mutation reduces circadian pacemaker amplitude and enhances efficacy of resetting stimuli and phase-response curve amplitude. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 9327-9332.	7.1	209
9	Identification of diverse modulators of central and peripheral circadian clocks by high-throughput chemical screening. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 101-106.	7.1	195
10	Emergence of Noise-Induced Oscillations in the Central Circadian Pacemaker. <i>PLoS Biology</i> , 2010, 8, e1000513.	5.6	172
11	Neurospine (OPN5)-mediated photoentrainment of local circadian oscillators in mammalian retina and cornea. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13093-13098.	7.1	132
12	Violet-light suppression of thermogenesis by opsin 5 hypothalamic neurons. <i>Nature</i> , 2020, 585, 420-425.	27.8	78
13	Neurospine (OPN5) Mediates Local Light-Dependent Induction of Circadian Clock Genes and Circadian Photoentrainment in Exposed Murine Skin. <i>Current Biology</i> , 2019, 29, 3478-3487.e4.	3.9	76
14	Period2 3' UTR and microRNA-24 regulate circadian rhythms by repressing PERIOD2 protein accumulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E8855-E8864.	7.1	71
15	Melanopsin and Mechanisms of Non-visual Ocular Photoreception. <i>Journal of Biological Chemistry</i> , 2012, 287, 1649-1656.	3.4	66
16	An opsin 5 dopamine pathway mediates light-dependent vascular development in the eye. <i>Nature Cell Biology</i> , 2019, 21, 420-429.	10.3	63
17	Ocular Clocks: Adapting Mechanisms for Eye Functions and Health. , 2018, 59, 4856.		61
18	Adaptive Thermogenesis in Mice Is Enhanced by Opsin 3-Dependent Adipocyte Light Sensing. <i>Cell Reports</i> , 2020, 30, 672-686.e8.	6.4	53

#	ARTICLE	IF	CITATIONS
19	Genetic suppression of the circadian Clock mutation by the melatonin biosynthesis pathway. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8399-8403.	7.1	52
20	Local photic entrainment of the retinal circadian oscillator in the absence of rods, cones, and melanopsin. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8625-8630.	7.1	42
21	An LHX1-Regulated Transcriptional Network Controls Sleep/Wake Coupling and Thermal Resistance of the Central Circadian Clockworks. Current Biology, 2017, 27, 128-136.	3.9	36
22	Melanopsin expression in the cornea. Visual Neuroscience, 2018, 35, E004.	1.0	33
23	Ocular Photoreception for Circadian Rhythm Entrainment in Mammals. Annual Review of Vision Science, 2016, 2, 153-169.	4.4	22
24	Evolutionary Constraint on Visual and Nonvisual Mammalian Opsins. Journal of Biological Rhythms, 2021, 36, 109-126.	2.6	22
25	Light entrainment of the murine intraocular pressure circadian rhythm utilizes non-local mechanisms. PLoS ONE, 2017, 12, e0184790.	2.5	20
26	The molecular clockwork of mammalian cells. Seminars in Cell and Developmental Biology, 2022, 126, 87-96.	5.0	16
27	Opsin 3 $\beta$ Promotes Airway Smooth Muscle Relaxation Modulated by G Protein Receptor Kinase 2. American Journal of Respiratory Cell and Molecular Biology, 2021, 64, 59-68.	2.9	15
28	Wounding Induces Facultative <i>Opn5</i> -Dependent Circadian Photoreception in the Murine Cornea. , 2020, 61, 37.		8
29	Melanopsin: The Tale of the Tail. Neuron, 2016, 90, 909-911.	8.1	5
30	Phase-Resetting Sensitivity of the Suprachiasmatic Nucleus and Oscillator Amplitude. Journal of Biological Rhythms, 2011, 26, 371-373.	2.6	3
31	The making of the master clock. ELife, 2014, 3, e04014.	6.0	3
32	3D-printed assistive pipetting system for gel electrophoresis for technicians with low acuity vision. BioTechniques, 2021, 70, 49-53.	1.8	2
33	Melatonin Adjusts the Phase of Mouse Circadian Clocks in the Cornea Both Ex Vivo and In Vivo. Journal of Biological Rhythms, 2021, 36, 470-482.	2.6	1
34	Molecular circadian rhythms in mammals: From angstroms to organisms. Seminars in Cell and Developmental Biology, 2021, , .	5.0	0