Nicholas S Foulkes

List of Publications by Year
in descending order

99 papers	8,589 citations	61984 43 h-index	43889 91 g-index
104 all docs	104 docs citations	104 times ranked	5145 citing authors

#	Article	IF	Citations
1	CREM gene: Use of alternative DNA-binding domains generates multiple antagonists of cAMP-induced transcription. Cell, 1991, 64, 739-749.	28.9	680
2	Inducibility and negative autoregulation of CREM: An alternative promoter directs the expression of ICER, an early response repressor. Cell, 1993, 75, 875-886.	28.9	576
3	Spermiogenesis deficiency and germ-cell apoptosis in CREM-mutant mice. Nature, 1996, 380, 159-162.	27.8	567
4	Developmental switch of CREM function during spermatogenesis: from antagonist to activator. Nature, 1992, 355, 80-84.	27.8	489
5	Light acts directly on organs and cells in culture to set the vertebrate circadian clock. Nature, 2000, 404, 87-91.	27.8	414
6	Adrenergic signals direct rhythmic expression of transcriptional represser CREM in the pineal gland. Nature, 1993, 365, 314-320.	27.8	397
7	Zebrafish Clock rhythmic expression reveals independent peripheral circadian oscillators. Nature Neuroscience, 1998, 1, 701-707.	14.8	326
8	More is better: Activators and repressors from the same gene. Cell, 1992, 68, 411-414.	28.9	288
9	Pituitary hormone FSH directs the CREM functional switch during spermatogenesis. Nature, 1993, 362, 264-267.	27.8	257
10	It's time to swim! Zebrafish and the circadian clock. FEBS Letters, 2011, 585, 1485-1494.	2.8	228
11	Diverse point mutations in the human glucose-6-phosphate dehydrogenase gene cause enzyme deficiency and mild or severe hemolytic anemia.. Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 5171-5175.	7.1	223
12	A Blind Circadian Clock in Cavefish Reveals that Opsins Mediate Peripheral Clock Photoreception. PLoS Biology, 2011, 9, e1001142.	5.6	194
13	Light Regulates the Cell Cycle in Zebrafish. Current Biology, 2003, 13, 2051-2057.	3.9	163
14	Temperature Regulates Transcription in the Zebrafish Circadian Clock. PLoS Biology, 2005, 3, e351.	5.6	152
15	Rhythmic transcription: the molecular basis of circadian melatonin synthesis. Trends in Neurosciences, 1997, 20, 487-492.	8.6	144
16	A potent inhibitor ofTaqpolymerase copurifies with human genomic DNA. Nucleic Acids Research, 1988, 16, 10355-10355.	14.5	143
17	Transcriptional control of circadian hormone synthesis via the CREM feedback loop. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 14140-14145.	7.1	141
18	Alternative usage of initiation codons in mRNA encoding the cAMP-responsive-element modulator generates regulators with opposite functions.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 4226-4230.	7.1	137

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19	E-box function in a period gene repressed by light. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 4106-4111.	7.1	136
20	Transgenesis in fish: efficient selection of transgenic fish by co-injection with a fluorescent reporter construct. Nature Protocols, 2006, 1, 1133-1139.	12.0	126
21	Asynchronous oscillations of two zebrafish CLOCK partners reveal differential clock control and function. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 4339-4344.	7.1	125
22	Pituitary follicle-stimulating hormone (FSH) induces CREM gene expression in Sertoli cells: involvement in long-term desensitization of the FSH receptor.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 10673-10677.	7.1	116
23	Light Directs Zebrafish period2 Expression via Conserved D and E Boxes. PLoS Biology, 2009, 7, e1000223.	5.6	112
24	Transcriptional antagonist cAMP-responsive element modulator (CREM) down-regulates c-fos cAMP-induced expression.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 5448-5452.	7.1	107
25	Glucocorticoids Play a Key Role in Circadian Cell Cycle Rhythms. PLoS Biology, 2007, 5, e78.	5.6	105
26	Reverse transcription of mRNA byThermus aquaticusDNA polymerase. Nucleic Acids Research, 1989, 17, 8387-8388.	14.5	97
27	The Light Responsive Transcriptome of the Zebrafish: Function and Regulation. PLoS ONE, 2011, 6, e17080.	2.5	90
28	Transcriptional response to cAMP in brain: Specific distribution and induction of CREM antagonists. Neuron, 1993, 10, 655-665.	8.1	89
29	Adaptive inducibility of CREM as transcriptional memory of circadian rhythms. Nature, 1996, 381, 83-85.	27.8	89
30	The light-induced transcriptome of the zebrafish pineal gland reveals complex regulation of the circadian clockwork by light. Nucleic Acids Research, 2014, 42, 3750-3767.	14.5	71
31	Circadian clocks. Progress in Brain Research, 2012, 199, 41-57.	1.4	70
32	Circadian clocks, rhythmic synaptic plasticity and the sleep-wake cycle in zebrafish. Frontiers in Neural Circuits, 2013, 7, 9.	2.8	66
33	Early embryonic light detection improves survival. Current Biology, 2004, 14, R104-R105.	3.9	63
34	Rhythmic transcription: The molecular basis of circadian melatonin synthesis. Biology of the Cell, 1997, 89, 487-494.	2.0	62
35	Start the clock! Circadian rhythms and development. Developmental Dynamics, 2007, 236, 142-155.	1.8	61
36	Cyclic AMP signalling pathway and cellular proliferation: induction of CREM during liver regeneration. Oncogene, 1997, 14, 1601-1606.	5.9	57

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37	Zebrafish arylalkylamine-N-acetyltransferase genes â€“ targets for regulation of the circadian clock. Journal of Molecular Endocrinology, 2006, 36, 337-347.	2.5	52
38	Genetically Blocking the Zebrafish Pineal Clock Affects Circadian Behavior. PLoS Genetics, 2016, 12, e1006445.	3.5	51
39	Molecular Analysis of Clock Gene Expression in the Avian Brain. Chronobiology International, 2006, 23, 113-127.	2.0	50
40	Ectopic ICER Expression in Pituitary Corticotroph AtT20 Cells: Effects on Morphology, Cell Cycle, and Hormonal Production. Molecular Endocrinology, 1997, 11, 1425-1434.	3.7	49
41	Regulation of per and cry Genes Reveals a Central Role for the D-Box Enhancer in Light-Dependent Gene Expression. PLoS ONE, 2012, 7, e51278.	2.5	47
42	Isolation and characterization of melanopsin and pinopsin expression within photoreceptive sites of reptiles. Die Naturwissenschaften, 2006, 93, 379-385.	1.6	45
43	Basic Protocols for Zebrafish Cell Lines. Methods in Molecular Biology, 2007, 362, 429-441.	0.9	45
44	The transcriptional repressor ICER and cAMP-induced programmed cell death. Oncogene, 1997, 15, 827-836.	5.9	44
45	Glucocorticoids and circadian clock control of cell proliferation: At the interface between three dynamic systems. Molecular and Cellular Endocrinology, 2011, 331, 11-22.	3.2	44
46	Functional Development of the Circadian Clock in the Zebrafish Pineal Gland. BioMed Research International, 2014, 2014, 1-8.	1.9	43
47	Evolution Shapes the Gene Expression Response to Oxidative Stress. International Journal of Molecular Sciences, 2019, 20, 3040.	4.1	43
48	Developmental maturation of pineal gland function: synchronized CREM inducibility and adrenergic stimulation. Molecular Endocrinology, 1995, 9, 706-716.	3.7	43
49	A Clockwork Organ. Biological Chemistry, 2000, 381, 793-800.	2.5	42
50	Early-life lead exposure induces long-term toxicity in the central nervous system: From zebrafish larvae to juveniles and adults. Science of the Total Environment, 2022, 804, 150185.	8.0	41
51	Systematic Identification of Rhythmic Genes Reveals camk1gb as a New Element in the Circadian Clockwork. PLoS Genetics, 2012, 8, e1003116.	3.5	37
52	Cavefish eye loss in response to an early block in retinal differentiation progression. Development (Cambridge), 2015, 142, 743-752.	2.5	37
53	MULTIPLE PAR AND E4BP4 bZIP TRANSCRIPTION FACTORS IN ZEBRAFISH: DIVERSE SPATIAL AND TEMPORAL EXPRESSION PATTERNS. Chronobiology International, 2010, 27, 1509-1531.	2.0	35
54	Evolution shapes the responsiveness of the D-box enhancer element to light and reactive oxygen species in vertebrates. Scientific Reports, 2018, 8, 13180.	3.3	32

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55	Casein Kinase 1Î´ Activity: A Key Element in the Zebrafish Circadian Timing System. PLoS ONE, 2013, 8, e54189.	2.5	30
56	Modulation of DNA Repair Systems in Blind Cavefish during Evolution in Constant Darkness. Current Biology, 2018, 28, 3229-3243.e4.	3.9	30
57	Mutations in blind cavefish target the light-regulated circadian clock gene, period 2. Scientific Reports, 2018, 8, 8754.	3.3	29
58	Early embryonic light detection improves survival. Current Biology, 2004, 14, R104-5.	3.9	28
59	PASting together the mammalian clock. Current Opinion in Neurobiology, 1998, 8, 635-641.	4.2	27
60	Transcriptional Regulation of Arylalkylamine-N-Acetyltransferase-2 Gene in the Pineal Gland of the Gilthead Seabream. Journal of Neuroendocrinology, 2007, 19, 46-53.	2.6	27
61	Differential maturation of rhythmic clock gene expression during early development in medaka (<i>Oryzias latipes</i>). Chronobiology International, 2014, 31, 468-478.	2.0	27
62	Flies and Fish: Birds of a Feather. Journal of Neuroendocrinology, 2003, 15, 344-349.	2.6	26
63	Circadian Timing of Injury-Induced Cell Proliferation in Zebrafish. PLoS ONE, 2012, 7, e34203.	2.5	25
64	Stress-induced expression of transcriptional repressor ICER in the adrenal gland. FEBS Letters, 1998, 434, 33-36.	2.8	24
65	Zebrafish Cell Clocks Feel the Heat and See the Light!. Zebrafish, 2005, 2, 171-187.	1.1	23
66	Encephalic photoreception and phototactic response in the troglobiont Somalian blind cavefish <i>Phreatichthys andruzzii</i>. Journal of Experimental Biology, 2012, 215, 2898-2903.	1.7	23
67	Interactions between the circadian clock and TGF-Î² signaling pathway in zebrafish. PLoS ONE, 2018, 13, e0199777.	2.5	23
68	Polymerase chain reaction automated at low cost. Nucleic Acids Research, 1988, 16, 5687-5688.	14.5	22
69	ERK Signaling Regulates Light-Induced Gene Expression via D-Box Enhancers in a Differential, Wavelength-Dependent Manner. PLoS ONE, 2013, 8, e67858.	2.5	22
70	Transcription factors coupled to the cAMP-signalling pathway. Biochimica Et Biophysica Acta: Reviews on Cancer, 1996, 1288, F101-F121.	7.4	21
71	The production of normal and variant human glucose-6-phosphate dehydrogenase in cos cells. FEBS Journal, 1988, 178, 109-113.	0.2	20
72	Photoreceptor Diversification Accompanies the Evolution of Anthozoa. Molecular Biology and Evolution, 2021, 38, 1744-1760.	8.9	20

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73	Hypothermia modulates circadian clock gene expression in lizard peripheral tissues. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 292, R160-R166.	1.8	19
74	Molecular Mechanisms of Neuronal Cell Death: Implications for Nuclear Factors Responding to cAMP and Phorbol Esters. Molecular and Cellular Neurosciences, 2002, 21, 1-14.	2.2	17
75	Developmental Stage-Specific Regulation of the Circadian Clock by Temperature in Zebrafish. BioMed Research International, 2014, 2014, 1-11.	1.9	17
76	Ectopic ICER Expression in Pituitary Corticotroph AtT20 Cells: Effects on Morphology, Cell Cycle, and Hormonal Production. Molecular Endocrinology, 1997, 11, 1425-1434.	3.7	16
77	Early Embryonic Light Detection Improves Survival. Current Biology, 2004, 14, 446.	3.9	15
78	Differential circadian and light-driven rhythmicity of clock gene expression and behaviour in the turbot, Scophthalmus maximus. PLoS ONE, 2019, 14, e0219153.	2.5	14
79	Nuclear response to cyclic AMP: central role of transcription factor CREM (cyclic-AMP-responsive-element modulator). Biochemical Society Transactions, 1993, 21, 912-917.	3.4	13
80	Instrument design and protocol for the study of light controlled processes in aquatic organisms, and its application to examine the effect of infrared light on zebrafish. PLoS ONE, 2017, 12, e0172038.	2.5	13
81	Peripheral Noxious Stimulation Induces CREM Expression in Dorsal Horn: Involvement of Glutamate. European Journal of Neuroscience, 1997, 9, 2778-2783.	2.6	12
82	Finding Nemoâ€™s clock reveals switch from nocturnal to diurnal activity. Scientific Reports, 2021, 11, 6801.	3.3	10
83	DIY Automated Feeding and Motion Recording System for the Analysis of Fish Behavior. SLAS Technology, 2019, 24, 394-398.	1.9	9
84	Long photoperiod impairs learning in male but not female medaka. IScience, 2021, 24, 102784.	4.1	8
85	YB-1 recruitment to stress granules in zebrafish cells reveals a differential adaptive response to stress. Scientific Reports, 2019, 9, 9059.	3.3	7
86	Rhythmic Transcription: The Molecular Basis of Oscillatory Melatonin Synthesis. Novartis Foundation Symposium, 2008, , 5-18.	1.1	6
87	Period 2: A Regulator of Multiple Tissue-Specific Circadian Functions. Frontiers in Molecular Neuroscience, 2021, 14, 718387.	2.9	6
88	6 Coupling transcription to signaling pathways. Advances in Second Messenger and Phosphoprotein Research, 1997, , 63-74.	4.5	4
89	A stochastic oscillator model simulates the entrainment of vertebrate cellular clocks by light. Scientific Reports, 2021, 11, 14497.	3.3	3
90	A Zebrafish Model for a Rare Genetic Disease Reveals a Conserved Role for FBXL3 in the Circadian Clock System. International Journal of Molecular Sciences, 2022, 23, 2373.	4.1	3

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91	Regulation of ddb2 expression in blind cavefish and zebrafish reveals plasticity in the control of sunlight-induced DNA damage repair. PLoS Genetics, 2021, 17, e1009356.	3.5	2
92	The Fish Circadian Timing System: The Illuminating Case of Light-Responsive Peripheral Clocks. , 2017, , 177-192.		1
93	Fishing for Links between the Circadian Clock and Cell Cycle. , 2010, , 93-110.		1
94	CREM, a master-switch in the nuclear response to cAMP signaling. , 1995, , 1-38.		1
95	Rhythmic Transcription: The Molecular Basis of Circadian Melatonin Synthesis. , 1999, 227, 3-10.		1
96	Transcription Factor Crem: A Key Element of the Nuclear Response to cAMP. , 1993, , 139-152.		0
97	Transcription Factor ICER: Regulation in the Rat Photoneuroendocrine System. , 1995, , 13-20.		0
98	CREM. , 1996, , 143-160.		0
99	Coupling Signal Transduction to Transcription: The Nuclear Response to cAMP. , 1997, , 265-279.		0