

Frédéric Gachon

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

5,580
citations

109264

35
h-index

143943

57
g-index

67
all docs

67
docs citations

67
times ranked

6278
citing authors

#	ARTICLE	IF	CITATIONS
1	The circadian PAR-domain basic leucine zipper transcription factors DBP, TEF, and HLF modulate basal and inducible xenobiotic detoxification. <i>Cell Metabolism</i> , 2006, 4, 25-36.	7.2	454
2	The Complementary Strand of the Human T-Cell Leukemia Virus Type 1 RNA Genome Encodes a bZIP Transcription Factor That Down-Regulates Viral Transcription. <i>Journal of Virology</i> , 2002, 76, 12813-12822.	1.5	444
3	The mammalian circadian timing system: from gene expression to physiology. <i>Chromosoma</i> , 2004, 113, 103-12.	1.0	316
4	Circadian clock-dependent and -independent rhythmic proteomes implement distinct diurnal functions in mouse liver. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 167-172.	3.3	304
5	Medicine in the Fourth Dimension. <i>Cell Metabolism</i> , 2019, 30, 238-250.	7.2	245
6	The Circadian Clock Coordinates Ribosome Biogenesis. <i>PLoS Biology</i> , 2013, 11, e1001455.	2.6	243
7	The loss of circadian PAR bZip transcription factors results in epilepsy. <i>Genes and Development</i> , 2004, 18, 1397-1412.	2.7	241
8	Guidelines for Genome-Scale Analysis of Biological Rhythms. <i>Journal of Biological Rhythms</i> , 2017, 32, 380-393.	1.4	237
9	Circadian and feeding rhythms differentially affect rhythmic mRNA transcription and translation in mouse liver. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E6579-88.	3.3	199
10	The Mouse Microbiome Is Required for Sex-Specific Diurnal Rhythms of Gene Expression and Metabolism. <i>Cell Metabolism</i> , 2019, 29, 362-382.e8.	7.2	178
11	Chronopharmacology: New Insights and Therapeutic Implications. <i>Annual Review of Pharmacology and Toxicology</i> , 2014, 54, 339-361.	4.2	173
12	Diurnal Oscillations in Liver Mass and Cell Size Accompany Ribosome Assembly Cycles. <i>Cell</i> , 2017, 169, 651-663.e14.	13.5	170
13	Nuclear Proteomics Uncovers Diurnal Regulatory Landscapes in Mouse Liver. <i>Cell Metabolism</i> , 2017, 25, 102-117.	7.2	164
14	Circadian Clock-Coordinated 12 Hr Period Rhythmic Activation of the IRE1 \pm Pathway Controls Lipid Metabolism in Mouse Liver. <i>Cell Metabolism</i> , 2010, 11, 47-57.	7.2	161
15	Chronotype: Implications for Epidemiologic Studies on Chrono-Nutrition and Cardiometabolic Health. <i>Advances in Nutrition</i> , 2019, 10, 30-42.	2.9	129
16	Transcription factor activity rhythms and tissue-specific chromatin interactions explain circadian gene expression across organs. <i>Genome Research</i> , 2018, 28, 182-191.	2.4	105
17	Local Renal Circadian Clocks Control Fluid \pm Electrolyte Homeostasis and BP. <i>Journal of the American Society of Nephrology: JASN</i> , 2014, 25, 1430-1439.	3.0	104
18	Systematic analysis of differential rhythmic liver gene expression mediated by the circadian clock and feeding rhythms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	91

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19	Clock-dependent chromatin topology modulates circadian transcription and behavior. <i>Genes and Development</i> , 2018, 32, 347-358.	2.7	89
20	CREB-2, a Cellular CRE-Dependent Transcription Repressor, Functions in Association with Tax as an Activator of the Human T-Cell Leukemia Virus Type 1 Promoter. <i>Journal of Virology</i> , 1998, 72, 8332-8337.	1.5	88
21	Transcriptomic analyses reveal rhythmic and CLOCK-driven pathways in human skeletal muscle. <i>ELife</i> , 2018, 7, .	2.8	87
22	Neuronal Activity Regulates Blood-Brain Barrier Efflux Transport through Endothelial Circadian Genes. <i>Neuron</i> , 2020, 108, 937-952.e7.	3.8	86
23	Pancreatic β - and δ -cellular clocks have distinct molecular properties and impact on islet hormone secretion and gene expression. <i>Genes and Development</i> , 2017, 31, 383-398.	2.7	84
24	The role of circadian timing system on drug metabolism and detoxification. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2011, 7, 147-158.	1.5	83
25	Lipidomics reveals diurnal lipid oscillations in human skeletal muscle persisting in cellular myotubes cultured in vitro. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E8565-E8574.	3.3	74
26	Circadian and Feeding Rhythms Orchestrate the Diurnal Liver Acetylome. <i>Cell Reports</i> , 2017, 20, 1729-1743.	2.9	72
27	Physiological function of PAR β Zip circadian clock-controlled transcription factors. <i>Annals of Medicine</i> , 2007, 39, 562-571.	1.5	70
28	Transcriptional regulatory logic of the diurnal cycle in the mouse liver. <i>PLoS Biology</i> , 2017, 15, e2001069.	2.6	68
29	Crosstalk between xenobiotics metabolism and circadian clock. <i>FEBS Letters</i> , 2007, 581, 3626-3633.	1.3	65
30	Molecular Interactions Involved in the Transactivation of the Human T-Cell Leukemia Virus Type 1 Promoter Mediated by Tax and CREB-2 (ATF-4). <i>Molecular and Cellular Biology</i> , 2000, 20, 3470-3481.	1.1	64
31	Proline- and acidic amino acid-rich basic leucine zipper proteins modulate peroxisome proliferator-activated receptor δ (PPAR δ) activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4794-4799.	3.3	63
32	Cardiac hypertrophy, low blood pressure, and low aldosterone levels in mice devoid of the three circadian PAR β Zip transcription factors DBP, HLF, and TEF. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2010, 299, R1013-R1019.	0.9	59
33	Molecular Cloning of a Novel Human I-mfa Domain-containing Protein That Differently Regulates Human T-cell Leukemia Virus Type I and HIV-1 Expression. <i>Journal of Biological Chemistry</i> , 2000, 275, 4848-4857.	1.6	51
34	Glucose Homeostasis: Regulation by Peripheral Circadian Clocks in Rodents and Humans. <i>Endocrinology</i> , 2017, 158, 1074-1084.	1.4	49
35	Extensive Regulation of Diurnal Transcription and Metabolism by Glucocorticoids. <i>PLoS Genetics</i> , 2016, 12, e1006512.	1.5	44
36	Disruption of the circadian clock component BMAL1 elicits an endocrine adaption impacting on insulin sensitivity and liver disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2200083119.	3.3	44

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37	Proteomics in Circadian Biology. <i>Journal of Molecular Biology</i> , 2020, 432, 3565-3577.	2.0	35
38	The cAMP response element binding protein-2 (CREB-2) can interact with the C/EBP-homologous protein (CHOP). <i>FEBS Letters</i> , 2001, 502, 57-62.	1.3	34
39	Regulation of Mammalian Physiology by Interconnected Circadian and Feeding Rhythms. <i>Frontiers in Endocrinology</i> , 2017, 8, 42.	1.5	33
40	Robust landscapes of ribosome dwell times and aminoacyl-tRNAs in response to nutrient stress in liver. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9630-9641.	3.3	29
41	Proteomics and circadian rhythms: It's all about signaling!. <i>Proteomics</i> , 2015, 15, 310-317.	1.3	28
42	Circadian Regulation of Cochlear Sensitivity to Noise by Circulating Glucocorticoids. <i>Current Biology</i> , 2019, 29, 2477-2487.e6.	1.8	27
43	Activation of HTLV-I Transcription in the Presence of Tax Is Independent of the Acetylation of CREB-2 (ATF-4). <i>Virology</i> , 2002, 299, 271-278.	1.1	25
44	USP2-45 Is a Circadian Clock Output Effector Regulating Calcium Absorption at the Post-Translational Level. <i>PLoS ONE</i> , 2016, 11, e0145155.	1.1	25
45	Cross-regulatory circuits linking inflammation, high-fat diet, and the circadian clock. <i>Genes and Development</i> , 2018, 32, 1359-1360.	2.7	23
46	A Novel Role for Proline- and Acid-rich Basic Region Leucine Zipper (PAR bZIP) Proteins in the Transcriptional Regulation of a BH3-only Proapoptotic Gene. <i>Journal of Biological Chemistry</i> , 2006, 281, 38351-38357.	1.6	19
47	Circadian Dysfunction and Obesity: Is Leptin the Missing Link?. <i>Cell Metabolism</i> , 2015, 22, 359-360.	7.2	18
48	Dysfunction of the circadian clock in the kidney tubule leads to enhanced kidney gluconeogenesis and exacerbated hyperglycemia in diabetes. <i>Kidney International</i> , 2022, 101, 563-573.	2.6	13
49	At the Intersection of Microbiota and Circadian Clock: Are Sexual Dimorphism and Growth Hormones the Missing Link to Pathology?. <i>BioEssays</i> , 2019, 41, 1900059.	1.2	10
50	Circadian clock-coordinated hepatic lipid metabolism: only transcriptional regulation?. <i>Aging</i> , 2010, 2, 101-106.	1.4	10
51	Perturbed rhythmic activation of signaling pathways in mice deficient for Sterol Carrier Protein 2-dependent diurnal lipid transport and metabolism. <i>Scientific Reports</i> , 2016, 6, 24631.	1.6	9
52	The genomic landscape of human cellular circadian variation points to a novel role for the signalosome. <i>ELife</i> , 2017, 6, .	2.8	9
53	Molecular Interactions Involved in the Transactivation of the Human T-Cell Leukemia Virus Type 1 Promoter Mediated by Tax and CREB-2 (ATF-4). <i>Molecular and Cellular Biology</i> , 2000, 20, 3470-3481.	1.1	7
54	MondoA regulates gene expression in cholesterol biosynthesis-associated pathways required for zebrafish epiboly. <i>ELife</i> , 2020, 9, .	2.8	7

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55	Diurnal liver mass is associated with ribosome biogenesis. <i>Oncotarget</i> , 2017, 8, 96476-96477.	0.8	5
56	Time to listen: circadian impact on auditory research. <i>Current Opinion in Physiology</i> , 2020, 18, 95-99.	0.9	4
57	The Mechanisms and Physiological Consequences of Diurnal Hepatic Cell Size Fluctuations: A Brief Review.. , 2022, 56, 1-11.		2
58	The Insulin/Insulin-like Growth Factor signalling connects metabolism with sexual differentiation. <i>Acta Physiologica</i> , 2021, 231, e13576.	1.8	0
59	Microbiota and the clock: sexual dimorphism matters!. <i>Aging</i> , 2019, 11, 3893-3894.	1.4	0