FrÃ©dÃ©ric Gachon

List of Publications by Year
in descending order

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	Dysfunction of the circadian clock in the kidney tubule leads to enhanced kidney gluconeogenesis and exacerbated hyperglycemia in diabetes. Kidney International, 2022, 101, 563-573.	2.6	13
2	The Mechanisms and Physiological Consequences of Diurnal Hepatic Cell Size Fluctuations: A Brief Review.. , 2022, 56, 1-11.		2
3	Disruption of the circadian clock component BMAL1 elicits an endocrine adaption impacting on insulin sensitivity and liver disease. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2200083119.	3.3	44
4	The Insulin/Insulinâ€like Growth Factor signalling connects metabolism with sexual differentiation. Acta Physiologica, 2021, 231, e13576.	1.8	0
5	Systematic analysis of differential rhythmic liver gene expression mediated by the circadian clock and feeding rhythms. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	91
6	Proteomics in Circadian Biology. Journal of Molecular Biology, 2020, 432, 3565-3577.	2.0	35
7	Neuronal Activity Regulates Blood-Brain Barrier Efflux Transport through Endothelial Circadian Genes. Neuron, 2020, 108, 937-952.e7.	3.8	86
8	Time to listen: circadian impact on auditory research. Current Opinion in Physiology, 2020, 18, 95-99.	0.9	4
9	Robust landscapes of ribosome dwell times and aminoacyl-tRNAs in response to nutrient stress in liver. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 9630-9641.	3.3	29
10	MondoA regulates gene expression in cholesterol biosynthesis-associated pathways required for zebrafish epiboly. ELife, 2020, 9, .	2.8	7
11	At the Intersection of Microbiota and Circadian Clock: Are Sexual Dimorphism and Growth Hormones the Missing Link to Pathology?. BioEssays, 2019, 41, 1900059.	1.2	10
12	Medicine in the Fourth Dimension. Cell Metabolism, 2019, 30, 238-250.	7.2	245
13	Circadian Regulation of Cochlear Sensitivity to Noise by Circulating Glucocorticoids. Current Biology, 2019, 29, 2477-2487.e6.	1.8	27
14	Chronotype: Implications for Epidemiologic Studies on Chrono-Nutrition and Cardiometabolic Health. Advances in Nutrition, 2019, 10, 30-42.	2.9	129
15	The Mouse Microbiome Is Required for Sex-Specific Diurnal Rhythms of Gene Expression and Metabolism. Cell Metabolism, 2019, 29, 362-382.e8.	7.2	178
16	Microbiota and the clock: sexual dimorphism matters!. Aging, 2019, 11, 3893-3894.	1.4	0
17	Transcription factor activity rhythms and tissue-specific chromatin interactions explain circadian gene expression across organs. Genome Research, 2018, 28, 182-191.	2.4	105
18	Clock-dependent chromatin topology modulates circadian transcription and behavior. Genes and Development, 2018, 32, 347-358.	2.7	89

#	Article	IF	Citations
19	Cross-regulatory circuits linking inflammation, high-fat diet, and the circadian clock. Genes and Development, 2018, 32, 1359-1360.	2.7	23
20	Transcriptomic analyses reveal rhythmic and CLOCK-driven pathways in human skeletal muscle. ELife, 2018, 7, .	2.8	87
21	Pancreatic Î±- and Î²-cellular clocks have distinct molecular properties and impact on islet hormone secretion and gene expression. Genes and Development, 2017, 31, 383-398.	2.7	84
22	Glucose Homeostasis: Regulation by Peripheral Circadian Clocks in Rodents and Humans. Endocrinology, 2017, 158, 1074-1084.	1.4	49
23	Diurnal Oscillations in Liver Mass and Cell Size Accompany Ribosome Assembly Cycles. Cell, 2017, 169, 651-663.e14.	13.5	170
24	Lipidomics reveals diurnal lipid oscillations in human skeletal muscle persisting in cellular myotubes cultured in vitro. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8565-E8574.	3.3	74
25	Circadian and Feeding Rhythms Orchestrate the Diurnal Liver Acetylome. Cell Reports, 2017, 20, 1729-1743.	2.9	72
26	Guidelines for Genome-Scale Analysis of Biological Rhythms. Journal of Biological Rhythms, 2017, 32, 380-393.	1.4	237
27	Nuclear Proteomics Uncovers Diurnal Regulatory Landscapes in Mouse Liver. Cell Metabolism, 2017, 25, 102-117.	7.2	164
28	Regulation of Mammalian Physiology by Interconnected Circadian and Feeding Rhythms. Frontiers in Endocrinology, 2017, 8, 42.	1.5	33
29	Transcriptional regulatory logic of the diurnal cycle in the mouse liver. PLoS Biology, 2017, 15, e2001069.	2.6	68
30	Diurnal liver mass is associated with ribosome biogenesis. Oncotarget, 2017, 8, 96476-96477.	0.8	5
31	The genomic landscape of human cellular circadian variation points to a novel role for the signalosome. ELife, 2017, 6, .	2.8	9
32	Extensive Regulation of Diurnal Transcription and Metabolism by Glucocorticoids. PLoS Genetics, 2016, 12, e1006512.	1.5	44
33	Perturbed rhythmic activation of signaling pathways in mice deficient for Sterol Carrier Protein 2-dependent diurnal lipid transport and metabolism. Scientific Reports, 2016, 6, 24631.	1.6	9
34	USP2-45 Is a Circadian Clock Output Effector Regulating Calcium Absorption at the Post-Translational Level. PLoS ONE, 2016, 11, e0145155.	1.1	25
35	Circadian and feeding rhythms differentially affect rhythmic mRNA transcription and translation in mouse liver. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6579-88.	3.3	199
36	Circadian Dysfunction and Obesity: Is Leptin the Missing Link?. Cell Metabolism, 2015, 22, 359-360.	7.2	18

#	Article	IF	Citations
37	Proteomics and circadian rhythms: It's all about signaling!. Proteomics, 2015, 15, 310-317.	1.3	28
38	Chronopharmacology: New Insights and Therapeutic Implications. Annual Review of Pharmacology and Toxicology, 2014, 54, 339-361.	4.2	173
39	Circadian clock-dependent and -independent rhythmic proteomes implement distinct diurnal functions in mouse liver. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 167-172.	3.3	304
40	Local Renal Circadian Clocks Control Fluidâ€“Electrolyte Homeostasis and BP. Journal of the American Society of Nephrology: JASN, 2014, 25, 1430-1439.	3.0	104
41	The Circadian Clock Coordinates Ribosome Biogenesis. PLoS Biology, 2013, 11, e1001455.	2.6	243
42	The role of circadian timing system on drug metabolism and detoxification. Expert Opinion on Drug Metabolism and Toxicology, 2011, 7, 147-158.	1.5	83
43	Proline- and acidic amino acid-rich basic leucine zipper proteins modulate peroxisome proliferator-activated receptor Î± (PPARÎ±) activity. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4794-4799.	3.3	63
44	Cardiac hypertrophy, low blood pressure, and low aldosterone levels in mice devoid of the three circadian PAR bZip transcription factors DBP, HLF, and TEF. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 299, R1013-R1019.	0.9	59
45	Circadian Clock-Coordinated 12 Hr Period Rhythmic Activation of the IRE1Î± Pathway Controls Lipid Metabolism in Mouse Liver. Cell Metabolism, 2010, 11, 47-57.	7.2	161
46	Circadian clock-coordinated hepatic lipid metabolism: only transcriptional regulation?. Aging, 2010, 2, 101-106.	1.4	10
47	Crosstalk between xenobiotics metabolism and circadian clock. FEBS Letters, 2007, 581, 3626-3633.	1.3	65
48	Physiological function of PARbZip circadian clockâ€controlled transcription factors. Annals of Medicine, 2007, 39, 562-571.	1.5	70
49	The circadian PAR-domain basic leucine zipper transcription factors DBP, TEF, and HLF modulate basal and inducible xenobiotic detoxification. Cell Metabolism, 2006, 4, 25-36.	7.2	454
50	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. Journal of Biological Chemistry, 2006, 281, 38351-38357.	1.6	19
51	The loss of circadian PAR bZip transcription factors results in epilepsy. Genes and Development, 2004, 18, 1397-1412.	2.7	241
52	The mammalian circadian timing system: from gene expression to physiology. Chromosoma, 2004, 113, 103-12.	1.0	316
53	The Complementary Strand of the Human T-Cell Leukemia Virus Type 1 RNA Genome Encodes a bZIP Transcription Factor That Down-Regulates Viral Transcription. Journal of Virology, 2002, 76, 12813-12822.	1.5	444
54	Activation of HTLV-I Transcription in the Presence of Tax Is Independent of the Acetylation of CREB-2 (ATF-4). Virology, 2002, 299, 271-278.	1.1	25

#	Article	IF	Citations
55	The cAMP response element binding protein-2 (CREB-2) can interact with the C/EBP-homologous protein (CHOP). FEBS Letters, 2001, 502, 57-62.	1.3	34
56	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. Journal of Biological Chemistry, 2000, 275, 4848-4857.	1.6	51
57	Molecular Interactions Involved in the Transactivation of the Human T-Cell Leukemia Virus Type 1 Promoter Mediated by Tax and CREB-2 (ATF-4). Molecular and Cellular Biology, 2000, 20, 3470-3481.	1.1	64
58	Molecular Interactions Involved in the Transactivation of the Human T-Cell Leukemia Virus Type 1 Promoter Mediated by Tax and CREB-2 (ATF-4). Molecular and Cellular Biology, 2000, 20, 3470-3481.	1.1	7
59	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. Journal of Virology, 1998, 72, 8332-8337.	1.5	88