Etienne Lefai

List of Publications by Year
in descending order

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73	5,325	109264 35	85498 71
papers	citations	h-index	g-index

81	81	81	9873
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	AMPK Phosphorylates and Inhibits SREBP Activity to Attenuate Hepatic Steatosis and Atherosclerosis in Diet-Induced Insulin-Resistant Mice. Cell Metabolism, 2011, 13, 376-388.	7.2	1,356
2	Inhibition of SOAT1 Suppresses Glioblastoma Growth via Blocking SREBP-1â€“Mediated Lipogenesis. Clinical Cancer Research, 2016, 22, 5337-5348.	3.2	210
3	Glucose-Mediated N-glycosylation of SCAP Is Essential for SREBP-1 Activation and Tumor Growth. Cancer Cell, 2015, 28, 569-581.	7.7	193
4	Myotube-derived exosomal miRNAs downregulate Sirtuin1 in myoblasts during muscle cell differentiation. Cell Cycle, 2014, 13, 78-89.	1.3	164
5	Fibroblast growth factor 19 regulates skeletal muscle mass and ameliorates muscle wasting in mice. Nature Medicine, 2017, 23, 990-996.	15.2	155
6	Exosomes participate in the alteration of muscle homeostasis during lipid-induced insulin resistance in mice. Diabetologia, 2014, 57, 2155-2164.	2.9	146
7	Disruption of Mitochondria-Associated Endoplasmic Reticulum Membrane (MAM) Integrity Contributes to Muscle Insulin Resistance in Mice and Humans. Diabetes, 2018, 67, 636-650.	0.3	141
8	The microRNA Signature in Response to Insulin Reveals Its Implication in the Transcriptional Action of Insulin in Human Skeletal Muscle and the Role of a Sterol Regulatory Elementâ€“Binding Protein-1c/Myocyte Enhancer Factor 2C Pathway. Diabetes, 2009, 58, 2555-2564.	0.3	133
9	Proteomic Analysis of C2C12 Myoblast and Myotube Exosome-Like Vesicles: A New Paradigm for Myoblast-Myotube Cross Talk?. PLoS ONE, 2014, 9, e84153.	1.1	133
10	Insulin activates human sterol-regulatory-element-binding protein-1c (SREBP-1c) promoter through SRE motifs. Biochemical Journal, 2006, 400, 179-188.	1.7	114
11	BRCA1 Affects Lipid Synthesis through Its Interaction with Acetyl-CoA Carboxylase. Journal of Biological Chemistry, 2006, 281, 3172-3181.	1.6	112
12	TNF-Î±- and tumor-induced skeletal muscle atrophy involves sphingolipid metabolism. Skeletal Muscle, 2012, 2, 2.	1.9	102
13	Downregulation of Akt/mammalian target of rapamycin pathway in skeletal muscle is associated with increased REDD1 expression in response to chronic hypoxia. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 298, R1659-R1666.	0.9	99
14	Regulation of SREBP-1 expression and transcriptional action on HKII and FAS genes during fasting and refeeding in rat tissues. Journal of Lipid Research, 2005, 46, 697-705.	2.0	96
15	FTO Is Increased in Muscle During Type 2 Diabetes, and Its Overexpression in Myotubes Alters Insulin Signaling, Enhances Lipogenesis and ROS Production, and Induces Mitochondrial Dysfunction. Diabetes, 2011, 60, 258-268.	0.3	92
16	Insulin Resistance is Associated with MCP1-Mediated Macrophage Accumulation in Skeletal Muscle in Mice and Humans. PLoS ONE, 2014, 9, e110653.	1.1	91
17	A liver Hif-2Î±â€“Irs2 pathway sensitizes hepatic insulin signaling and is modulated by Vegf inhibition. Nature Medicine, 2013, 19, 1331-1337.	15.2	90
18	Adipose Tissueâ€“Derived Stem Cells From Obese Subjects Contribute to Inflammation and Reduced Insulin Response in Adipocytes Through Differential Regulation of the Th1/Th17 Balance and Monocyte Activation. Diabetes, 2015, 64, 2477-2488.	0.3	89

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19	Transcriptomic analyses reveal rhythmic and CLOCK-driven pathways in human skeletal muscle. ELife, 2018, 7, .	2.8	87
20	Myostatin Gene Inactivation Prevents Skeletal Muscle Wasting in Cancer. Cancer Research, 2014, 74, 7344-7356.	0.4	86
21	Validity of combining heart rate and uniaxial acceleration to measure free-living physical activity energy expenditure in young men. Journal of Applied Physiology, 2012, 113, 1763-1771.	1.2	81
22	Human skeletal myotubes display a cell-autonomous circadian clock implicated in basal myokine secretion. Molecular Metabolism, 2015, 4, 834-845.	3.0	78
23	Adaptive Changes of the Insig1/SREBP1/SCD1 Set Point Help Adipose Tissue to Cope With Increased Storage Demands of Obesity. Diabetes, 2013, 62, 3697-3708.	0.3	76
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	A New Role for Sterol Regulatory Element Binding Protein 1 Transcription Factors in the Regulation of Muscle Mass and Muscle Cell Differentiation. Molecular and Cellular Biology, 2010, 30, 1182-1198.	1.1	70
26	Feedback Loop Regulation of SCAP/SREBP-1 by miR-29 Modulates EGFR Signaling-Driven Glioblastoma Growth. Cell Reports, 2016, 16, 1527-1535.	2.9	66
27	Microarray analyses of SREBP-1a and SREBP-1c target genes identify new regulatory pathways in muscle. Physiological Genomics, 2008, 34, 327-337.	1.0	63
28	An APOA5 3â€² UTR Variant Associated with Plasma Triglycerides Triggers APOA5 Downregulation by Creating a Functional miR-485-5p Binding Site. American Journal of Human Genetics, 2014, 94, 129-134.	2.6	58
29	GPIHBP1 C89F Neomutation and Hydrophobic C-Terminal Domain G175R Mutation in Two Pedigrees with Severe Hyperchylomicronemia. Journal of Clinical Endocrinology and Metabolism, 2011, 96, E1675-E1679.	1.8	56
30	Activation of liver X receptors promotes lipid accumulation but does not alter insulin action in human skeletal muscle cells. Diabetologia, 2006, 49, 990-999.	2.9	54
31	Sterol Regulatory Element-Binding Protein-1 Mediates the Effect of Insulin on Hexokinase II Gene Expression in Human Muscle Cells. Diabetes, 2004, 53, 321-329.	0.3	50
32	A socio-ecological approach promoting physical activity and limiting sedentary behavior in adolescence showed weight benefits maintained 2.5 years after intervention cessation. International Journal of Obesity, 2014, 38, 936-943.	1.6	43
33	In-Depth Proteome Analysis Highlights HepaRG Cells as a Versatile Cell System Surrogate for Primary Human Hepatocytes. Cells, 2019, 8, 192.	1.8	41
34	Metabolic Inflexibility Is an Early Marker of Bed-Restâ€“Induced Glucose Intolerance Even When Fat Mass Is Stable. Journal of Clinical Endocrinology and Metabolism, 2018, 103, 1910-1920.	1.8	40
35	Activity energy expenditure is a major determinant of dietary fat oxidation and trafficking, but the deleterious effect of detraining is more marked than the beneficial effect of training at current recommendations. American Journal of Clinical Nutrition, 2013, 98, 648-658.	2.2	36
36	Regulation of Mitochondrial Single-stranded DNA-binding Protein Gene Expression Links Nuclear and Mitochondrial DNA Replication inDrosophila. Journal of Biological Chemistry, 2000, 275, 13628-13636.	1.6	34

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37	Phospholipase D regulates the size of skeletal muscle cells through the activation of mTOR signaling. Cell Communication and Signaling, 2013, 11, 55.	2.7	34
38	Metabolic reprogramming involving glycolysis in the hibernating brown bear skeletal muscle. Frontiers in Zoology, 2019, 16, 12.	0.9	34
39	Differential Regulation of the Catalytic and Accessory Subunit Genes of Drosophila Mitochondrial DNA Polymerase. Journal of Biological Chemistry, 2000, 275, 33123-33133.	1.6	33
40	Evidence for Mitochondrial Respiratory Deficiency in Rat Rhabdomyosarcoma Cells. PLoS ONE, 2010, 5, e8637.	1.1	31
41	SREBP-1 Transcription Factors Regulate Skeletal Muscle Cell Size by Controlling Protein Synthesis through Myogenic Regulatory Factors. PLoS ONE, 2012, 7, e50878.	1.1	31
42	Overexpression of the catalytic subunit of DNA polymerase Î³ results in depletion of mitochondrial DNA in Drosophila melanogaster. Molecular Genetics and Genomics, 2000, 264, 37-46.	2.4	30
43	Proteolysis inhibition by hibernating bear serum leads to increased protein content in human muscle cells. Scientific Reports, 2018, 8, 5525.	1.6	29
44	Ether lipids, sphingolipids and toxic 1â€deoxyceramides as hallmarks for lean and obese type 2 diabetic patients. Acta Physiologica, 2021, 232, e13610.	1.8	29
45	Sirtuin 1 Regulates SREBP-1c Expression in a LXR-Dependent Manner in Skeletal Muscle. PLoS ONE, 2012, 7, e43490.	1.1	27
46	Phospholipase D Regulates Myogenic Differentiation through the Activation of Both mTORC1 and mTORC2 Complexes. Journal of Biological Chemistry, 2011, 286, 22609-22621.	1.6	26
47	Exercise training improves fat metabolism independent of total energy expenditure in sedentary overweight men, but does not restore lean metabolic phenotype. International Journal of Obesity, 2017, 41, 1728-1736.	1.6	25
48	Lipidomics Reveals Seasonal Shifts in a Large-Bodied Hibernator, the Brown Bear. Frontiers in Physiology, 2019, 10, 389.	1.3	25
49	Bis(Monoacylglycero)Phosphate Accumulation in Macrophages Induces Intracellular Cholesterol Redistribution, Attenuates Liver-X Receptor/ATP-Binding Cassette Transporter A1/ATP-Binding Cassette Transporter G1 Pathway, and Impairs Cholesterol Efflux. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 1803-1811.	1.1	24
50	A nutrient cocktail prevents lipid metabolism alterations induced by 20 days of daily steps reduction and fructose overfeeding: result from a randomized study. Journal of Applied Physiology, 2019, 126, 88-101.	1.2	24
51	Multiple microRNA regulation of lipoprotein lipase gene abolished by 3â€²UTR polymorphisms in a triglyceride-lowering haplotype harboring p.Ser474Ter. Atherosclerosis, 2016, 246, 280-286.	0.4	23
52	Microarray analysis of genes with impaired insulin regulation in the skeletal muscle of type 2 diabetic patients indicates the involvement of basic helix-loop-helix domain-containing, class B, 2 protein (BHLHB2). Diabetologia, 2009, 52, 1899-1912.	2.9	21
53	Pdro, a Protein Associated with Late Endosomes and Lysosomes and Implicated in Cellular Cholesterol Homeostasis. PLoS ONE, 2010, 5, e10977.	1.1	20
54	Seasonal changes in eicosanoid metabolism in the brown bear. Die Naturwissenschaften, 2018, 105, 58.	0.6	19

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55	MicroRNAs facilitate skeletal muscle maintenance and metabolic suppression in hibernating brown bears. Journal of Cellular Physiology, 2020, 235, 3984-3993.	2.0	19
56	Transition from physical activity to inactivity increases skeletal muscle miR-148b content and triggers insulin resistance. Physiological Reports, 2016, 4, e12902.	0.7	18
57	Effects of training and detraining on adiponectin plasma concentration and muscle sensitivity in lean and overweight men. European Journal of Applied Physiology, 2016, 116, 2135-2144.	1.2	17
58	TRPV1 variants impair intracellular Ca2+ signaling and may confer susceptibility to malignant hyperthermia. Genetics in Medicine, 2019, 21, 441-450.	1.1	17
59	Expression of the splice variants of the p85Î± regulatory subunit of phosphoinositide 3-kinase in muscle and adipose tissue of healthy subjects and type 2 diabetic patients. Biochemical Journal, 2001, 360, 117.	1.7	16
60	Limited Oxidative Stress Favors Resistance to Skeletal Muscle Atrophy in Hibernating Brown Bears (Ursus Arctos). Antioxidants, 2019, 8, 334.	2.2	15
61	Effect of enforced physical inactivity induced by 60â€day of bed rest on hepatic markers of <scp>NAFLD</scp> in healthy normalâ€weight women. Liver International, 2015, 35, 1700-1706.	1.9	14
62	Enzymatic activities of mitochondrial respiratory complexes from children muscular biopsies. Age-related evolutions. Biochimica Et Biophysica Acta - Bioenergetics, 1995, 1228, 43-50.	0.5	11
63	Quantitative decrease of human cytochrome c oxidase during development: evidences for a post-transcriptional regulation. Biochimica Et Biophysica Acta - Bioenergetics, 1997, 1318, 191-201.	0.5	11
64	The highly compact structure of the mitochondrial DNA polymerase genomic region of Drosophila melanogaster: functional and evolutionary implications. Insect Molecular Biology, 2000, 9, 315-322.	1.0	10
65	ANT2-Mediated ATP Import into Mitochondria Protects against Hypoxia Lethal Injury. Cells, 2020, 9, 2542.	1.8	10
66	Concurrent BMP Signaling Maintenance and TGF-Î² Signaling Inhibition Is a Hallmark of Natural Resistance to Muscle Atrophy in the Hibernating Bear. Cells, 2021, 10, 1873.	1.8	7
67	Glucose Uptake Measurement and Response to Insulin Stimulation in In Vitro Cultured Human Primary Myotubes. Journal of Visualized Experiments, 2017, , .	0.2	6
68	Hibernating brown bears are protected against atherogenic dyslipidemia. Scientific Reports, 2021, 11, 18723.	1.6	6
69	Hypergravity as a gravitational therapy mitigates the effects of knee osteoarthritis on the musculoskeletal system in a murine model. PLoS ONE, 2020, 15, e0243098.	1.1	4
70	Specific shifts in the endocannabinoid system in hibernating brown bears. Frontiers in Zoology, 2020, 17, 35.	0.9	2
71	Cardiomyocyte Protection by Hibernating Brown Bear Serum: Toward the Identification of New Protective Molecules Against Myocardial Infarction. Frontiers in Cardiovascular Medicine, 2021, 8, 687501.	1.1	2
72	Addendum: Gouriou et al. ANT2-Mediated ATP Import into Mitochondria Protects against Hypoxia Lethal Injury. Cells 2020, 9, 2542. Cells, 2021, 10, 2171.	1.8	1

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73	A TG-associated minor LPL haplotype supresses miR-29 binding on LPL 3'UTR. Atherosclerosis, 2015, 241, e12.	0.4	0