

Romain Barres

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75
papers

5,323
citations

29
h-index

72
g-index

88
ext. papers

6,532
ext. citations

9
avg, IF

5.68
L-index

#	Paper	IF	Citations
75	Chronic high-fat diet in fathers programs Bcell dysfunction in female rat offspring. <i>Nature</i> , 2010 , 467, 963-6	50.4	1043
74	Acute exercise remodels promoter methylation in human skeletal muscle. <i>Cell Metabolism</i> , 2012 , 15, 405-11	24.6	586
73	Non-CpG methylation of the PGC-1alpha promoter through DNMT3B controls mitochondrial density. <i>Cell Metabolism</i> , 2009 , 10, 189-98	24.6	463
72	Skeletal muscle PGC-1β modulates kynurenine metabolism and mediates resilience to stress-induced depression. <i>Cell</i> , 2014 , 159, 33-45	56.2	453
71	Obesity and Bariatric Surgery Drive Epigenetic Variation of Spermatozoa in Humans. <i>Cell Metabolism</i> , 2016 , 23, 369-78	24.6	320
70	High-fat diet reprograms the epigenome of rat spermatozoa and transgenerationally affects metabolism of the offspring. <i>Molecular Metabolism</i> , 2016 , 5, 184-197	8.8	217
69	Weight loss after gastric bypass surgery in human obesity remodels promoter methylation. <i>Cell Reports</i> , 2013 , 3, 1020-7	10.6	192
68	Sperm epigenetics and influence of environmental factors. <i>Molecular Metabolism</i> , 2018 , 14, 1-11	8.8	134
67	In Situ Fixation Redefines Quiescence and Early Activation of Skeletal Muscle Stem Cells. <i>Cell Reports</i> , 2017 , 21, 1982-1993	10.6	133
66	ZBED6, a novel transcription factor derived from a domesticated DNA transposon regulates IGF2 expression and muscle growth. <i>PLoS Biology</i> , 2009 , 7, e1000256	9.7	124
65	The role of diet and exercise in the transgenerational epigenetic landscape of T2DM. <i>Nature Reviews Endocrinology</i> , 2016 , 12, 441-51	15.2	119
64	DNA methylation in metabolic disorders. <i>American Journal of Clinical Nutrition</i> , 2011 , 93, 897S-900	7	111
63	Time of Exercise Specifies the Impact on Muscle Metabolic Pathways and Systemic Energy Homeostasis. <i>Cell Metabolism</i> , 2019 , 30, 92-110.e4	24.6	88
62	Evidence Suggesting Absence of Mitochondrial DNA Methylation. <i>Frontiers in Genetics</i> , 2017 , 8, 166	4.5	85
61	Altered DNA methylation of glycolytic and lipogenic genes in liver from obese and type 2 diabetic patients. <i>Molecular Metabolism</i> , 2016 , 5, 171-183	8.8	74
60	The Microbiota and Epigenetic Regulation of T Helper 17/Regulatory T Cells: In Search of a Balanced Immune System. <i>Frontiers in Immunology</i> , 2017 , 8, 417	8.4	72
59	DNA methylation is altered in B and NK lymphocytes in obese and type 2 diabetic human. <i>Metabolism: Clinical and Experimental</i> , 2014 , 63, 1188-97	12.7	70

58	The Emerging Role of Epigenetics in Inflammation and Immunometabolism. <i>Trends in Endocrinology and Metabolism</i> , 2016 , 27, 782-795	8.8	66
57	Fatty acid-induced insulin resistance: role of insulin receptor substrate 1 serine phosphorylation in the retroregulation of insulin signalling. <i>Biochemical Society Transactions</i> , 2003 , 31, 1152-6	5.1	62
56	Hyperosmotic stress inhibits insulin receptor substrate-1 function by distinct mechanisms in 3T3-L1 adipocytes. <i>Journal of Biological Chemistry</i> , 2003 , 278, 26550-7	5.4	58
55	Endurance training remodels sperm-borne small RNA expression and methylation at neurological gene hotspots. <i>Clinical Epigenetics</i> , 2018 , 10, 12	7.7	55
54	Nicotinamide riboside does not alter mitochondrial respiration, content or morphology in skeletal muscle from obese and insulin-resistant men. <i>Journal of Physiology</i> , 2020 , 598, 731-754	3.9	53
53	Altered promoter methylation of PDK4, IL1 B, IL6, and TNF after Roux-en Y gastric bypass. <i>Surgery for Obesity and Related Diseases</i> , 2014 , 10, 671-8	3	52
52	Epigenetic changes in healthy human skeletal muscle following exercise- a systematic review. <i>Epigenetics</i> , 2019 , 14, 633-648	5.7	51
51	Evidence for non-CpG methylation in mammals. <i>Experimental Cell Research</i> , 2011 , 317, 2555-61	4.2	46
50	Exercise training alters the genomic response to acute exercise in human adipose tissue. <i>Epigenomics</i> , 2018 , 10, 1033-1050	4.4	41
49	Alteration in insulin action: role of IRS-1 serine phosphorylation in the retroregulation of insulin signalling. <i>Annales DiEndocrinologie</i> , 2004 , 65, 43-8	1.7	38
48	Transcriptomic and epigenetic responses to short-term nutrient-exercise stress in humans. <i>Scientific Reports</i> , 2017 , 7, 15134	4.9	33
47	Role of adenosine 5' monophosphate-activated protein kinase in interleukin-6 release from isolated mouse skeletal muscle. <i>Endocrinology</i> , 2009 , 150, 600-6	4.8	31
46	Altered expression and insulin-induced trafficking of Na ⁺ -K ⁺ -ATPase in rat skeletal muscle: effects of high-fat diet and exercise. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009 , 297, E38-49	6	28
45	C-peptide increases Na,K-ATPase expression via PKC- and MAP kinase-dependent activation of transcription factor ZEB in human renal tubular cells. <i>PLoS ONE</i> , 2011 , 6, e28294	3.7	27
44	Altered Methylation Profile of Lymphocytes Is Concordant with Perturbation of Lipids Metabolism and Inflammatory Response in Obesity. <i>Journal of Diabetes Research</i> , 2016 , 2016, 8539057	3.9	26
43	Dynamic epigenetic responses to muscle contraction. <i>Drug Discovery Today</i> , 2014 , 19, 1010-4	8.8	25
42	Ionizing Radiation Potentiates High-Fat Diet-Induced Insulin Resistance and Reprograms Skeletal Muscle and Adipose Progenitor Cells. <i>Diabetes</i> , 2016 , 65, 3573-3584	0.9	25
41	Enigma interacts with adaptor protein with PH and SH2 domains to control insulin-induced actin cytoskeleton remodeling and glucose transporter 4 translocation. <i>Molecular Endocrinology</i> , 2006 , 20, 2864-75		24

40	Time-restricted feeding alters lipid and amino acid metabolite rhythmicity without perturbing clock gene expression. <i>Nature Communications</i> , 2020 , 11, 4643	17.4	22
39	Muscle Contraction Induces Acute Hydroxymethylation of the Exercise-Responsive Gene. <i>Frontiers in Endocrinology</i> , 2016 , 7, 165	5.7	22
38	Preadipocytes from obese humans with type 2 diabetes are epigenetically reprogrammed at genes controlling adipose tissue function. <i>International Journal of Obesity</i> , 2019 , 43, 306-318	5.5	22
37	The interaction between the adaptor protein APS and Enigma is involved in actin organisation. <i>Experimental Cell Research</i> , 2005 , 308, 334-44	4.2	21
36	T cell epigenetic remodeling and accelerated epigenetic aging are linked to long-term immune alterations in childhood cancer survivors. <i>Clinical Epigenetics</i> , 2018 , 10, 138	7.7	19
35	Chronic erythropoietin treatment improves diet-induced glucose intolerance in rats. <i>Journal of Endocrinology</i> , 2015 , 225, 77-88	4.7	14
34	Skeletal muscle enhancer interactions identify genes controlling whole-body metabolism. <i>Nature Communications</i> , 2020 , 11, 2695	17.4	14
33	Atlas of exercise metabolism reveals time-dependent signatures of metabolic homeostasis.. <i>Cell Metabolism</i> , 2022 ,	24.6	14
32	Strenuous physical exercise adversely affects monocyte chemotaxis. <i>Thrombosis and Haemostasis</i> , 2011 , 105, 122-30	7	13
31	Epigenetic Reprogramming of Immune Cells in Women With PCOS Impact Genes Controlling Reproductive Function. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2019 , 104, 6155-6170	5.6	12
30	Paternal high-fat diet transgenerationally impacts hepatic immunometabolism. <i>FASEB Journal</i> , 2019 , 33, 6269-6280	0.9	10
29	Transcriptomic and epigenomics atlas of myotubes reveals insight into the circadian control of metabolism and development. <i>Epigenomics</i> , 2020 , 12, 701-713	4.4	10
28	Grandpaternal-induced transgenerational dietary reprogramming of the unfolded protein response in skeletal muscle. <i>Molecular Metabolism</i> , 2017 , 6, 621-630	8.8	10
27	Identification of two microRNA nodes as potential cooperative modulators of liver metabolism. <i>Hepatology Research</i> , 2019 , 49, 1451-1465	5.1	8
26	Afadin is a scaffold protein repressing insulin action via HDAC6 in adipose tissue. <i>EMBO Reports</i> , 2019 , 20, e48216	6.5	8
25	Nampt controls skeletal muscle development by maintaining Ca homeostasis and mitochondrial integrity. <i>Molecular Metabolism</i> , 2021 , 53, 101271	8.8	7
24	Genes controlling the activation of natural killer lymphocytes are epigenetically remodeled in intestinal cells from germ-free mice. <i>FASEB Journal</i> , 2019 , 33, 2719-2731	0.9	6
23	Methodology for Accurate Detection of Mitochondrial DNA Methylation. <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	6

22	OBEDIS Core Variables Project: European Expert Guidelines on a Minimal Core Set of Variables to Include in Randomized, Controlled Clinical Trials of Obesity Interventions. <i>Obesity Facts</i> , 2020 , 13, 1-28	5.1	5
21	Nutritional status affects the epigenomic profile of peripheral blood cells. <i>Epigenomics</i> , 2011 , 3, 259-60	4.4	5
20	Contraction influences Per2 gene expression in skeletal muscle through a calcium-dependent pathway. <i>Journal of Physiology</i> , 2020 , 598, 5739-5752	3.9	5
19	Environmental factors influence the epigenetic signature of newborns from mothers with gestational diabetes. <i>Epigenomics</i> , 2019 , 11, 861-873	4.4	4
18	Epigenetic and Transcriptomic Characterization of Pure Adipocyte Fractions From Obese Pigs Identifies Candidate Pathways Controlling Metabolism. <i>Frontiers in Genetics</i> , 2019 , 10, 1268	4.5	4
17	Ablation of DNA-methyltransferase 3A in skeletal muscle does not affect energy metabolism or exercise capacity. <i>PLoS Genetics</i> , 2021 , 17, e1009325	6	4
16	Insulin-induced serine 22 phosphorylation of retinoid X receptor alpha is dispensable for adipogenesis in brown adipocytes. <i>Adipocyte</i> , 2020 , 9, 142-152	3.2	3
15	Disrupted circadian oscillations in type 2 diabetes are linked to altered rhythmic mitochondrial metabolism in skeletal muscle. <i>Science Advances</i> , 2021 , 7, eabi9654	14.3	3
14	GREM1 is epigenetically reprogrammed in muscle cells after exercise training and controls myogenesis and metabolism		3
13	Perinatal exposure to nicotine alters spermatozoal DNA methylation near genes controlling nicotine action. <i>FASEB Journal</i> , 2021 , 35, e21702	0.9	3
12	Exercise during pregnancy mitigates negative effects of parental obesity on metabolic function in adult mouse offspring. <i>Journal of Applied Physiology</i> , 2021 , 130, 605-616	3.7	3
11	Structured supervised exercise training or motivational counselling during pregnancy on physical activity level and health of mother and offspring: FitMum study protocol. <i>BMJ Open</i> , 2021 , 11, e043671	3	3
10	Comparative analysis of oral and intraperitoneal glucose tolerance tests in mice.. <i>Molecular Metabolism</i> , 2022 , 57, 101440	8.8	2
9	Endurance exercise training-responsive miR-19b-3p improves skeletal muscle glucose metabolism. <i>Nature Communications</i> , 2021 , 12, 5948	17.4	2
8	White adipose remodeling during browning in mice involves YBX1 to drive thermogenic commitment. <i>Molecular Metabolism</i> , 2021 , 44, 101137	8.8	2
7	Cold-induction of afadin in brown fat supports its thermogenic capacity. <i>Scientific Reports</i> , 2021 , 11, 9794	4.9	1
6	Circadian Transcriptomic and Epigenomic Remodeling in Response to Lipid Overload and Human Obesity		1
5	Epigenetic rewiring of skeletal muscle enhancers after exercise training supports a role in whole-body function and human health. <i>Molecular Metabolism</i> , 2021 , 53, 101290	8.8	1

- 4 The exercise-induced long noncoding RNA promotes fast-twitch myogenesis in aging. *Science Translational Medicine*, **2021**, 13, eabc7367 17.5 1
- 3 Non-cell autonomous mechanisms control mitochondrial gene dysregulation in polycystic ovary syndrome. *Journal of Molecular Endocrinology*, **2021**, 68, 63-76 4.5 0
- 2 Time trends in epigenetic signatures and population health risks **2021**, 285-298
- 1 DNA Methylation and Gene Expression in Blood and Adipose Tissue of Adult Offspring of Women with Diabetes in Pregnancy: A Validation Study of DNA Methylation Changes Identified in Adolescent Offspring. *Biomedicine*, **2022**, 10, 1244 4.8