

Romain Barres

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

7,334
citations

126901

33
h-index

64791

79
g-index

88
all docs

88
docs citations

88
times ranked

10503
citing authors

#	ARTICLE	IF	CITATIONS
1	Chronic high-fat diet in fathers programs β -cell dysfunction in female rat offspring. <i>Nature</i> , 2010, 467, 963-966.	27.8	1,214
2	Acute Exercise Remodels Promoter Methylation in Human Skeletal Muscle. <i>Cell Metabolism</i> , 2012, 15, 405-411.	16.2	729
3	Skeletal Muscle PGC-1 β Modulates Kynurenine Metabolism and Mediates Resilience to Stress-Induced Depression. <i>Cell</i> , 2014, 159, 33-45.	28.9	581
4	Non-CpG Methylation of the PGC-1 β Promoter through DNMT3B Controls Mitochondrial Density. <i>Cell Metabolism</i> , 2009, 10, 189-198.	16.2	530
5	Obesity and Bariatric Surgery Drive Epigenetic Variation of Spermatozoa in Humans. <i>Cell Metabolism</i> , 2016, 23, 369-378.	16.2	435
6	High-fat diet reprograms the epigenome of rat spermatozoa and transgenerationally affects metabolism of the offspring. <i>Molecular Metabolism</i> , 2016, 5, 184-197.	6.5	317
7	Weight Loss after Gastric Bypass Surgery in Human Obesity Remodels Promoter Methylation. <i>Cell Reports</i> , 2013, 3, 1020-1027.	6.4	236
8	Sperm epigenetics and influence of environmental factors. <i>Molecular Metabolism</i> , 2018, 14, 1-11.	6.5	234
9	In Situ Fixation Redefines Quiescence and Early Activation of Skeletal Muscle Stem Cells. <i>Cell Reports</i> , 2017, 21, 1982-1993.	6.4	217
10	Time of Exercise Specifies the Impact on Muscle Metabolic Pathways and Systemic Energy Homeostasis. <i>Cell Metabolism</i> , 2019, 30, 92-110.e4.	16.2	176
11	ZBED6, a Novel Transcription Factor Derived from a Domesticated DNA Transposon Regulates IGF2 Expression and Muscle Growth. <i>PLoS Biology</i> , 2009, 7, e1000256.	5.6	149
12	The role of diet and exercise in the transgenerational epigenetic landscape of T2DM. <i>Nature Reviews Endocrinology</i> , 2016, 12, 441-451.	9.6	149
13	DNA methylation in metabolic disorders. <i>American Journal of Clinical Nutrition</i> , 2011, 93, 897S-900S.	4.7	136
14	Evidence Suggesting Absence of Mitochondrial DNA Methylation. <i>Frontiers in Genetics</i> , 2017, 8, 166.	2.3	121
15	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.	6.5	115
16	The Emerging Role of Epigenetics in Inflammation and Immunometabolism. <i>Trends in Endocrinology and Metabolism</i> , 2016, 27, 782-795.	7.1	108
17	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.	4.8	103
18	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.	2.9	97

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19	Epigenetic changes in healthy human skeletal muscle following exerciseâ€” a systematic review. <i>Epigenetics</i> , 2019, 14, 633-648.	2.7	96
20	DNA methylation is altered in B and NK lymphocytes in obese and type 2 diabetic human. <i>Metabolism: Clinical and Experimental</i> , 2014, 63, 1188-1197.	3.4	87
21	Atlas of exercise metabolism reveals time-dependent signatures of metabolic homeostasis. <i>Cell Metabolism</i> , 2022, 34, 329-345.e8.	16.2	86
22	Endurance training remodels sperm-borne small RNA expression and methylation at neurological gene hotspots. <i>Clinical Epigenetics</i> , 2018, 10, 12.	4.1	84
23	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, 1152-1156.	3.4	75
24	Time-restricted feeding alters lipid and amino acid metabolite rhythmicity without perturbing clock gene expression. <i>Nature Communications</i> , 2020, 11, 4643.	12.8	69
25	Hyperosmotic Stress Inhibits Insulin Receptor Substrate-1 Function by Distinct Mechanisms in 3T3-L1 Adipocytes. <i>Journal of Biological Chemistry</i> , 2003, 278, 26550-26557.	3.4	68
26	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, 671-678.	1.2	62
27	Exercise training alters the genomic response to acute exercise in human adipose tissue. <i>Epigenomics</i> , 2018, 10, 1033-1050.	2.1	61
28	Evidence for non-CpG methylation in mammals. <i>Experimental Cell Research</i> , 2011, 317, 2555-2561.	2.6	46
29	Transcriptomic and epigenetic responses to short-term nutrient-exercise stress in humans. <i>Scientific Reports</i> , 2017, 7, 15134.	3.3	46
30	Alteration in insulin action: role of IRS-1 serine phosphorylation in the retroregulation of insulin signalling. <i>Annales D'Endocrinologie</i> , 2004, 65, 43-48.	1.4	44
31	Disrupted circadian oscillations in type 2 diabetes are linked to altered rhythmic mitochondrial metabolism in skeletal muscle. <i>Science Advances</i> , 2021, 7, eabi9654.	10.3	44
32	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.	4.1	41
33	Role of Adenosine 5â€™-Monophosphate-Activated Protein Kinase in Interleukin-6 Release from Isolated Mouse Skeletal Muscle. <i>Endocrinology</i> , 2009, 150, 600-606.	2.8	40
34	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.	3.4	37
35	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-E49.	3.5	35
36	Ionizing Radiation Potentiates High-Fat Dietâ€”Induced Insulin Resistance and Reprograms Skeletal Muscle and Adipose Progenitor Cells. <i>Diabetes</i> , 2016, 65, 3573-3584.	0.6	35

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37	Sperm count is increased by diet-induced weight loss and maintained by exercise or GLP-1 analogue treatment: a randomized controlled trial. <i>Human Reproduction</i> , 2022, 37, 1414-1422.	0.9	34
38	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.	2.5	33
39	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, 1-11.	2.3	31
40	Muscle Contraction Induces Acute Hydroxymethylation of the Exercise-Responsive Gene Nr4a3. <i>Frontiers in Endocrinology</i> , 2016, 7, 165.	3.5	30
41	Dynamic epigenetic responses to muscle contraction. <i>Drug Discovery Today</i> , 2014, 19, 1010-1014.	6.4	29
42	Skeletal muscle enhancer interactions identify genes controlling whole-body metabolism. <i>Nature Communications</i> , 2020, 11, 2695.	12.8	29
43	Nampt controls skeletal muscle development by maintaining Ca ²⁺ homeostasis and mitochondrial integrity. <i>Molecular Metabolism</i> , 2021, 53, 101271.	6.5	27
44	Contraction influences <i>Per2</i> gene expression in skeletal muscle through a calcium-dependent pathway. <i>Journal of Physiology</i> , 2020, 598, 5739-5752.	2.9	26
45	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, 2864-2875.	3.7	25
46	Comparative analysis of oral and intraperitoneal glucose tolerance tests in mice. <i>Molecular Metabolism</i> , 2022, 57, 101440.	6.5	25
47	The interaction between the adaptor protein APS and Enigma is involved in actin organisation. <i>Experimental Cell Research</i> , 2005, 308, 334-344.	2.6	22
48	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.	3.6	22
49	Endurance exercise training-responsive miR-19b-3p improves skeletal muscle glucose metabolism. <i>Nature Communications</i> , 2021, 12, 5948.	12.8	20
50	The exercise-induced long noncoding RNA <i>CYTOR</i> promotes fast-twitch myogenesis in aging. <i>Science Translational Medicine</i> , 2021, 13, eabc7367.	12.4	19
51	Strenuous physical exercise adversely affects monocyte chemotaxis. <i>Thrombosis and Haemostasis</i> , 2011, 105, 122-130.	3.4	17
52	Afadin is a scaffold protein repressing insulin action via HDAC6 in adipose tissue. <i>EMBO Reports</i> , 2019, 20, e48216.	4.5	16
53	Paternal high-fat diet transgenerationally impacts hepatic immunometabolism. <i>FASEB Journal</i> , 2019, 33, 6269-6280.	0.5	15
54	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.	3.4	15

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55	Chronic erythropoietin treatment improves diet-induced glucose intolerance in rats. <i>Journal of Endocrinology</i> , 2015, 225, 77-88.	2.6	14
56	White adipose remodeling during browning in mice involves YBX1 to drive thermogenic commitment. <i>Molecular Metabolism</i> , 2021, 44, 101137.	6.5	13
57	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.	1.9	13
58	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.	6.5	13
59	Grandpaternal-induced transgenerational dietary reprogramming of the unfolded protein response in skeletal muscle. <i>Molecular Metabolism</i> , 2017, 6, 621-630.	6.5	12
60	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.	0.5	12
61	Transcriptomic and epigenomics atlas of myotubes reveals insight into the circadian control of metabolism and development. <i>Epigenomics</i> , 2020, 12, 701-713.	2.1	12
62	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.	2.5	11
63	Perinatal exposure to nicotine alters spermatozoal DNA methylation near genes controlling nicotine action. <i>FASEB Journal</i> , 2021, 35, e21702.	0.5	11
64	Methodology for Accurate Detection of Mitochondrial DNA Methylation. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	10
65	Identification of two microRNA nodes as potential cooperative modulators of liver metabolism. <i>Hepatology Research</i> , 2019, 49, 1451-1465.	3.4	9
66	Epigenetic and Transcriptomic Characterization of Pure Adipocyte Fractions From Obese Pigs Identifies Candidate Pathways Controlling Metabolism. <i>Frontiers in Genetics</i> , 2019, 10, 1268.	2.3	9
67	Ablation of DNA-methyltransferase 3A in skeletal muscle does not affect energy metabolism or exercise capacity. <i>PLoS Genetics</i> , 2021, 17, e1009325.	3.5	7
68	Insulin-induced serine 22 phosphorylation of retinoid X receptor alpha is dispensable for adipogenesis in brown adipocytes. <i>Adipocyte</i> , 2020, 9, 142-152.	2.8	6
69	Research Highlights: Nutritional status affects the epigenomic profile of peripheral blood cells. <i>Epigenomics</i> , 2011, 3, 259-260.	2.1	5
70	Environmental factors influence the epigenetic signature of newborns from mothers with gestational diabetes. <i>Epigenomics</i> , 2019, 11, 861-873.	2.1	5
71	Non-cell autonomous mechanisms control mitochondrial gene dysregulation in polycystic ovary syndrome. <i>Journal of Molecular Endocrinology</i> , 2022, 68, 63-76.	2.5	5
72	Cold-induction of afadin in brown fat supports its thermogenic capacity. <i>Scientific Reports</i> , 2021, 11, 9794.	3.3	3

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73	Insulin resistance rewires the metabolic gene program and glucose utilization in human white adipocytes. <i>International Journal of Obesity</i> , 2021, , .	3.4	3
74	Endurance Training in Humans Modulates the Bacterial DNA Signature of Skeletal Muscle. <i>Biomedicines</i> , 2022, 10, 64.	3.2	3
75	Transforming growth factor β 1 impairs the transcriptomic response to contraction in myotubes from women with polycystic ovary syndrome. <i>Journal of Physiology</i> , 2022, 600, 3313-3330.	2.9	3
76	DNA Methylation and Gene Expression in Blood and Adipose Tissue of Adult Offspring of Women with Diabetes in Pregnancyâ€”A Validation Study of DNA Methylation Changes Identified in Adolescent Offspring. <i>Biomedicines</i> , 2022, 10, 1244.	3.2	2
77	Erratum to â€œAltered promoter methylation of PDK4, IL1A, IL6, and TNF after Roux-en Y gastric bypassâ€. <i>Surgery for Obesity and Related Diseases</i> , 2015, 11, 735.	1.2	0
78	P2019 Adipocyte gene expression and DNA methylation patterns differ significantly between lean and obese pigs. <i>Journal of Animal Science</i> , 2016, 94, 46-46.	0.5	0
79	Time trends in epigenetic signatures and population health risks. , 2021, , 285-298.		0
80	O-018â€”Sperm count is increased by diet-induced weight loss and maintained by exercise or GLP-1 analogue treatment: a randomised controlled trial. <i>Human Reproduction</i> , 2022, 37, .	0.9	0