

BÃ©atrice Morio

List of Publications by Year in descending order

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112
papers

5,049
citations

81900

39
h-index

98798

67
g-index

121
all docs

121
docs citations

121
times ranked

8006
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitochondrial dysfunction results from oxidative stress in the skeletal muscle of diet-induced insulin-resistant mice. <i>Journal of Clinical Investigation</i> , 2008, 118, 789-800.	8.2	657
2	Fat and protein redistribution with aging: metabolic considerations. <i>European Journal of Clinical Nutrition</i> , 2000, 54, S48-S53.	2.9	227
3	Glycine Metabolism and Its Alterations in Obesity and Metabolic Diseases. <i>Nutrients</i> , 2019, 11, 1356.	4.1	202
4	Postexercise protein metabolism in older and younger men following moderate-intensity aerobic exercise. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2004, 287, E513-E522.	3.5	167
5	Mechanisms of body weight gain in patients with Parkinson's disease after subthalamic stimulation. <i>Brain</i> , 2007, 130, 1808-1818.	7.6	133
6	Combating inflammaging through a Mediterranean whole diet approach: The NU-AGE project's conceptual framework and design. <i>Mechanisms of Ageing and Development</i> , 2014, 136-137, 3-13.	4.6	131
7	Effects of Two Conjugated Linoleic Acid Isomers on Body Fat Mass in Overweight Humans. <i>Obesity</i> , 2004, 12, 591-598.	4.0	124
8	Subcutaneous Adipose Tissue Remodeling during the Initial Phase of Weight Gain Induced by Overfeeding in Humans. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2012, 97, E183-E192.	3.6	123
9	Muscle fat oxidative capacity is not impaired by age but by physical inactivity: association with insulin sensitivity. <i>FASEB Journal</i> , 2004, 18, 737-739.	0.5	112
10	Insulin Sensitivity and Mitochondrial Function Are Improved in Children With Burn Injury During a Randomized Controlled Trial of Fenofibrate. <i>Annals of Surgery</i> , 2007, 245, 214-221.	4.2	99
11	Overfeeding increases postprandial endotoxemia in men: Inflammatory outcome may depend on LPS transporters LBP and sCD14. <i>Molecular Nutrition and Food Research</i> , 2014, 58, 1513-1518.	3.3	95
12	Due to reverse electron transfer, mitochondrial H ₂ O ₂ release increases with age in human vastus lateralis muscle although oxidative capacity is preserved. <i>Mechanisms of Ageing and Development</i> , 2005, 126, 505-511.	4.6	92
13	Paclitaxel therapy potentiates cold hyperalgesia in streptozotocin-induced diabetic rats through enhanced mitochondrial reactive oxygen species production and TRPA1 sensitization. <i>Pain</i> , 2012, 153, 553-561.	4.2	84
14	Visceral Fat Accumulation During Lipid Overfeeding Is Related to Subcutaneous Adipose Tissue Characteristics in Healthy Men. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013, 98, 802-810.	3.6	84
15	Effects of 14 weeks of progressive endurance training on energy expenditure in elderly people. <i>British Journal of Nutrition</i> , 1998, 80, 511-519.	2.3	82
16	The 24-h Energy Intake of Obese Adolescents Is Spontaneously Reduced after Intensive Exercise: A Randomized Controlled Trial in Calorimetric Chambers. <i>PLoS ONE</i> , 2012, 7, e29840.	2.5	77
17	Whole Body Protein Breakdown Is Less Inhibited by Insulin, But Still Responsive to Amino Acid, in Nondiabetic Elderly Subjects. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2004, 89, 6017-6024.	3.6	72
18	Milk polar lipids reduce lipid cardiovascular risk factors in overweight postmenopausal women: towards a gut sphingomyelin-cholesterol interplay. <i>Gut</i> , 2020, 69, 487-501.	12.1	68

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19	Nutrition and protein energy homeostasis in elderly. <i>Mechanisms of Ageing and Development</i> , 2014, 136-137, 76-84.	4.6	67
20	Propranolol Decreases Splanchnic Triacylglycerol Storage in Burn Patients Receiving a High-Carbohydrate Diet. <i>Annals of Surgery</i> , 2002, 236, 218-225.	4.2	66
21	DHA at nutritional doses restores insulin sensitivity in skeletal muscle by preventing lipotoxicity and inflammation. <i>Journal of Nutritional Biochemistry</i> , 2015, 26, 949-959.	4.2	66
22	The Transplantation of 3 PUFA-Altered Gut Microbiota of fat-1 Mice to Wild-Type Littermates Prevents Obesity and Associated Metabolic Disorders. <i>Diabetes</i> , 2018, 67, 1512-1523.	0.6	65
23	Synergistic effects of caloric restriction with maintained protein intake on skeletal muscle performance in 21-month-old rats: a mitochondria-mediated pathway. <i>FASEB Journal</i> , 2006, 20, 2439-2450.	0.5	64
24	Bioelectrical impedance analysis measurements of total body water and extracellular water in healthy elderly subjects. <i>International Journal of Obesity</i> , 1998, 22, 537-543.	3.4	62
25	Reduced whole-body fat oxidation in women and in the elderly. <i>International Journal of Obesity</i> , 2001, 25, 39-44.	3.4	58
26	Study of iron metabolism disturbances in an animal model of insulin resistance. <i>Diabetes Research and Clinical Practice</i> , 2007, 77, 363-370.	2.8	58
27	Overweight after deep brain stimulation of the subthalamic nucleus in Parkinson disease: long term follow-up. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2009, 80, 484-488.	1.9	57
28	Diets High in Sugar, Fat, and Energy Induce Muscle Type-Specific Adaptations in Mitochondrial Functions in Rats. <i>Journal of Nutrition</i> , 2006, 136, 2194-2200.	2.9	55
29	Ruminant and industrial sources of <i>trans</i> -fat and cardiovascular and diabetic diseases. <i>Nutrition Research Reviews</i> , 2011, 24, 111-117.	4.1	52
30	PPAR- δ agonism improves whole body and muscle mitochondrial fat oxidation, but does not alter intracellular fat concentrations in burn trauma children in a randomized controlled trial. <i>Nutrition and Metabolism</i> , 2007, 4, 9.	3.0	49
31	Importance of metabolic changes induced by chemotherapy on prognosis of early-stage breast cancer patients: a review of potential mechanisms. <i>Obesity Reviews</i> , 2012, 13, 368-380.	6.5	48
32	Surgical Weight Loss: Impact on Energy Expenditure. <i>Obesity Surgery</i> , 2013, 23, 255-266.	2.1	47
33	EPA prevents fat mass expansion and metabolic disturbances in mice fed with a Western diet. <i>Journal of Lipid Research</i> , 2016, 57, 1382-1397.	4.2	45
34	Involvement of dietary saturated fats, from all sources or of dairy origin only, in insulin resistance and type 2 diabetes. <i>Nutrition Reviews</i> , 2016, 74, 33-47.	5.8	45
35	Amino acid supplementation decreases plasma and liver triacylglycerols in elderly. <i>Nutrition</i> , 2009, 25, 281-288.	2.4	44
36	Citrulline Supplementation Induces Changes in Body Composition and Limits Age-Related Metabolic Changes in Healthy Male Rats. <i>Journal of Nutrition</i> , 2015, 145, 1429-1437.	2.9	43

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37	Chronological Approach of Diet-induced Alterations in Muscle Mitochondrial Functions in Rats*. Obesity, 2007, 15, 50-59.	3.0	42
38	Dairy and industrial sources of trans fat do not impair peripheral insulin sensitivity in overweight women. American Journal of Clinical Nutrition, 2009, 90, 88-94.	4.7	40
39	High-fat diet action on adiposity, inflammation, and insulin sensitivity depends on the control low-fat diet. Nutrition Research, 2013, 33, 952-960.	2.9	40
40	Potential Mechanisms of Muscle Mitochondrial Dysfunction in Aging and Obesity and Cellular Consequences. International Journal of Molecular Sciences, 2009, 10, 306-324.	4.1	39
41	Intensive exercise: A remedy for childhood obesity?. Physiology and Behavior, 2011, 102, 132-136.	2.1	39
42	Critical evaluation of the factorial and heart-rate recording methods for the determination of energy expenditure of free-living elderly people. British Journal of Nutrition, 1997, 78, 709-722.	2.3	38
43	nâ~3 polyunsaturated fatty acids modulate metabolism of insulin-sensitive tissues: implication for the prevention of type 2 diabetes. Journal of Physiology and Biochemistry, 2014, 70, 647-658.	3.0	38
44	Muscle fatty acid oxidative capacity is a determinant of whole body fat oxidation in elderly people. American Journal of Physiology - Endocrinology and Metabolism, 2001, 280, E143-E149.	3.5	37
45	Depressed Levels of Prostaglandin F2Î± in Mice Lacking Akr1b7 Increase Basal Adiposity and Predispose to Diet-Induced Obesity. Diabetes, 2012, 61, 2796-2806.	0.6	37
46	Perinatal Protein Malnutrition Affects Mitochondrial Function in Adult and Results in a Resistance to High Fat Diet-Induced Obesity. PLoS ONE, 2014, 9, e104896.	2.5	37
47	Citrulline enhances myofibrillar constituents expression of skeletal muscle and induces a switch in muscle energy metabolism in malnourished aged rats. Proteomics, 2013, 13, 2191-2201.	2.2	36
48	N â~3 PUFA differentially modulate palmitate-induced lipotoxicity through alterations of its metabolism in C2C12 muscle cells. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 12-20.	2.4	36
49	Effects of endurance training on the cardiovascular system and water compartments in elderly subjects. Journal of Applied Physiology, 1997, 83, 1300-1306.	2.5	35
50	Obese but not lean adolescents spontaneously decrease energy intake after intensive exercise. Physiology and Behavior, 2014, 123, 41-46.	2.1	34
51	Enhanced Muscle Mixed and Mitochondrial Protein Synthesis Rates after a Highâ€fat or Highâ€sucrose Diet. Obesity, 2007, 15, 853-859.	3.0	33
52	Reduced neural response to food cues following exercise is accompanied by decreased energy intake in obese adolescents. International Journal of Obesity, 2016, 40, 77-83.	3.4	33
53	Muscle Mitochondrial Oxidative Phosphorylation Activity, But Not Content, Is Altered with Abdominal Obesity in Sedentary Men: Synergism with Changes in Insulin Sensitivity. Journal of Clinical Endocrinology and Metabolism, 2010, 95, 2948-2956.	3.6	30
54	Differential impact of milk fatty acid profiles on cardiovascular risk biomarkers in healthy men and women. European Journal of Clinical Nutrition, 2010, 64, 752-759.	2.9	29

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55	Regulation of Energy Metabolism and Mitochondrial Function in Skeletal Muscle During Lipid Overfeeding in Healthy Men. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2014, 99, E1254-E1262.	3.6	29
56	Preserved endothelium-dependent dilatation of the coronary microvasculature at the early phase of diabetes mellitus despite the increased oxidative stress and depressed cardiac mechanical function ex vivo. <i>Cardiovascular Diabetology</i> , 2013, 12, 49.	6.8	28
57	Hibernoma: A Clinical Model for Exploring the Role of Brown Adipose Tissue in the Regulation of Body Weight?. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2014, 99, 1-6.	3.6	28
58	Oleate dose-dependently regulates palmitate metabolism and insulin signaling in C2C12 myotubes. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 2000-2010.	2.4	27
59	Increased VLDL-TAG Turnover during and after Acute Moderate-Intensity Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2004, 36, 801-806.	0.4	26
60	Borage and fish oils lifelong supplementation decreases inflammation and improves bone health in a murine model of senile osteoporosis. <i>Bone</i> , 2012, 50, 553-561.	2.9	26
61	Acute Exercise and Subsequent Nutritional Adaptations. <i>Sports Medicine</i> , 2012, 42, 607-613.	6.5	25
62	Effects of trans MUFA from dairy and industrial sources on muscle mitochondrial function and insulin sensitivity. <i>Journal of Lipid Research</i> , 2008, 49, 1445-1455.	4.2	24
63	Energy expenditure, spontaneous physical activity and with weight gain in kidney transplant recipients. <i>Clinical Nutrition</i> , 2015, 34, 457-464.	5.0	24
64	The Effects of Imposed Sedentary Behavior and Exercise on Energy Intake in Adolescents With Obesity. <i>Journal of Developmental and Behavioral Pediatrics</i> , 2013, 34, 616-622.	1.1	23
65	Gender effect on exercise-induced energy intake modification among obese adolescents. <i>Appetite</i> , 2011, 56, 658-661.	3.7	22
66	Age-Related Changes in Segmental Body Composition by Ethnicity and History of Weight Change across the Adult Lifespan. <i>International Journal of Environmental Research and Public Health</i> , 2016, 13, 821.	2.6	22
67	Regulation of Mitochondria-Associated Membranes (MAMs) by NO/sGC/PKG Participates in the Control of Hepatic Insulin Response. <i>Cells</i> , 2019, 8, 1319.	4.1	22
68	Increasing intake of long-chain<i>n</i>-3 PUFA enhances lipoperoxidation and modulates hepatic gene expression in a dose-dependent manner. <i>British Journal of Nutrition</i> , 2012, 107, 1254-1273.	2.3	20
69	Deep Brain Stimulation of the Subthalamic Nucleus Regulates Postabsorptive Glucose Metabolism in Patients With Parkinson's Disease. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013, 98, E1050-E1054.	3.6	20
70	Is there spontaneous energy expenditure compensation in response to intensive exercise in obese youth?. <i>Pediatric Obesity</i> , 2014, 9, 147-154.	2.8	19
71	Comparison of total energy expenditure assessed by two devices in controlled and free-living conditions. <i>European Journal of Sport Science</i> , 2015, 15, 391-399.	2.7	19
72	Benefit of endurance training in elderly people over a short period is reversible. <i>European Journal of Applied Physiology</i> , 2000, 81, 329-336.	2.5	18

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73	French Recommendations for Sugar Intake in Adults: A Novel Approach Chosen by ANSES. <i>Nutrients</i> , 2018, 10, 989.	4.1	18
74	Comparison of oxygen consumption in rats during uphill (concentric) and downhill (eccentric) treadmill exercise tests. <i>Journal of Sports Science and Medicine</i> , 2014, 13, 689-94.	1.6	18
75	Gender differences in energy expended during activities and in daily energy expenditure of elderly people. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1997, 273, E321-E327.	3.5	17
76	Body adiposity dictates different mechanisms of increased coronary reactivity related to improved in vivo cardiac function. <i>Cardiovascular Diabetology</i> , 2014, 13, 54.	6.8	17
77	Omega-3 index levels and associated factors in a middle-aged French population: the MONA LISA-NUT Study. <i>European Journal of Clinical Nutrition</i> , 2015, 69, 436-441.	2.9	16
78	A 9-wk docosahexaenoic acid-enriched supplementation improves endurance exercise capacity and skeletal muscle mitochondrial function in adult rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016, 310, E213-E224.	3.5	16
79	The fastingâ€feeding metabolic transition regulates mitochondrial dynamics. <i>FASEB Journal</i> , 2021, 35, e21891.	0.5	16
80	Evidence for Impairment of Hepatic Energy Homeostasis in Head-Injured Rat. <i>Journal of Neurotrauma</i> , 2008, 25, 124-129.	3.4	15
81	Time-course effects of endurance training on fat oxidation in sedentary elderly people. <i>International Journal of Obesity</i> , 1999, 23, 706-714.	3.4	14
82	Discussion of "Overweight and obese boys reduce food intake in response to a glucose drink but fail to increase intake in response to exercise of short duration". <i>Applied Physiology, Nutrition and Metabolism</i> , 2012, 37, 1014-1015.	1.9	14
83	Combining citrulline with atorvastatin preserves glucose homeostasis in a murine model of dietâ€induced obesity. <i>British Journal of Pharmacology</i> , 2015, 172, 4996-5008.	5.4	14
84	Metabolomics reveals differential metabolic adjustments of normal and overweight subjects during overfeeding. <i>Metabolomics</i> , 2015, 11, 920-938.	3.0	13
85	Cardiometabolic impacts of saturated fatty acids: are they all comparable?. <i>International Journal of Food Sciences and Nutrition</i> , 2022, 73, 1-14.	2.8	12
86	A multivariate model for predicting segmental body composition. <i>British Journal of Nutrition</i> , 2013, 110, 2260-2270.	2.3	11
87	Loss and gain of function of Grp75 or mitofusin 2 distinctly alter cholesterol metabolism, but all promote triglyceride accumulation in hepatocytes. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2021, 1866, 159030.	2.4	11
88	Lipolysis, fatness, gender and plasma leptin concentrations in healthy, normal-weight subjects. <i>European Journal of Nutrition</i> , 1999, 38, 14-19.	3.9	10
89	Postprandial Endotoxin Transporters LBP and sCD14 Differ in Obese vs. Overweight and Normal Weight Men during Fat-Rich Meal Digestion. <i>Nutrients</i> , 2020, 12, 1820.	4.1	10
90	Dietary obesity in mice is associated with lipid deposition and metabolic shifts in the lungs sharing features with the liver. <i>Scientific Reports</i> , 2021, 11, 8712.	3.3	10

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91	Behavioral and physiological regulation of body fatness: a cross-sectional study in elderly men. <i>International Journal of Obesity</i> , 2006, 30, 322-330.	3.4	9
92	Rapid down��regulation of mitochondrial fat metabolism in human muscle after training cessation is dissociated from changes in insulin sensitivity. <i>FEBS Letters</i> , 2009, 583, 2927-2933.	2.8	9
93	Brown Adipose Tissue Activity in Relation to Weight Gain During Chemotherapy in Breast Cancer Patients: A Pilot Study. <i>Nutrition and Cancer</i> , 2014, 66, 1092-1096.	2.0	8
94	Reactive oxygen species enhance mitochondrial function, insulin sensitivity and glucose uptake in skeletal muscle of senescence accelerated prone mice SAMP8. <i>Free Radical Biology and Medicine</i> , 2017, 113, 267-279.	2.9	8
95	Saturated Fatty Acid-Enriched Diet-Impaired Mitochondrial Bioenergetics in Liver From Undernourished Rats During Critical Periods of Development. <i>Cells</i> , 2019, 8, 335.	4.1	8
96	Prospective Study on Body Composition, Energy Balance and Biological Factors Changes in Post-menopausal Women with Breast Cancer Receiving Adjuvant Chemotherapy Including Taxanes. <i>Nutrition and Cancer</i> , 2018, 70, 997-1006.	2.0	6
97	Energy balance in youth: an ��inter-dynamic��™ concept?. <i>British Journal of Nutrition</i> , 2013, 109, 581-582.	2.3	5
98	Energy Expenditure in Older People Hospitalized for an Acute Episode. <i>Nutrients</i> , 2019, 11, 2946.	4.1	5
99	An Integrated Analysis of miRNA and Gene Expression Changes in Response to an Obesogenic Diet to Explore the Impact of Transgenerational Supplementation with Omega 3 Fatty Acids. <i>Nutrients</i> , 2020, 12, 3864.	4.1	5
100	Lower-limb and whole-body tissue composition assessment in healthy active older women. <i>Annals of Human Biology</i> , 2006, 33, 89-99.	1.0	4
101	Weight Evolution During Endocrine Therapy for Breast Cancer in Postmenopausal Patients: Effect of Initial Fat Mass Percentage and Previous Adjuvant Treatments. <i>Clinical Breast Cancer</i> , 2018, 18, e1093-e1102.	2.4	4
102	Transgenerational supplementation with eicosapentaenoic acid reduced the metabolic consequences on the whole body and skeletal muscle in mice receiving an obesogenic diet. <i>European Journal of Nutrition</i> , 2021, 60, 3143-3157.	3.9	4
103	Impaired Resting Muscle Energetics Studied by ³¹ P��NMR in Diet��induced Obese Rats. <i>Obesity</i> , 2008, 16, 572-577.	3.0	3
104	Adipose Tissue Dysfunctions in Response to an Obesogenic Diet Are Reduced in Mice after Transgenerational Supplementation with Omega 3 Fatty Acids. <i>Metabolites</i> , 2021, 11, 838.	2.9	3
105	Automatic assessment of muscle/fat temporal variations on MR images of the thigh. , 0, , .		2
106	Post-exercise energy load and activities may affect subsequent ad libitum energy intake. <i>International Journal of Obesity</i> , 2014, 38, 750-750.	3.4	2
107	Mitochondria in Obesity and Type 2 Diabetes: Concluding Review and Research Perspectives. , 2019, , 421-431.		2
108	Evaluation of Mitochondrial Functions and Dysfunctions in Muscle Biopsy Samples. , 0, , .		1

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109	Head Injury: Metabolic, Nutritional, and Energy Considerations. , 2011, , 1585-1599.		1
110	3.220 Parkinson's disease patients become overweight after STN DBS. Parkinsonism and Related Disorders, 2007, 13, S167.	2.2	0
111	Overview of the Cross-Talk Between Hormones and Mitochondria. , 2019, , 63-91.		0
112	Snacking et rythmes alimentaires: �volutions et perceptions chez les Fran�ais. Synth�se du workshop de la SFN en partenariat avec Mondelez donn� en visioconf�rence le mardi 12 Octobre 2021. Cahiers De Nutrition Et De Dietetique, 2022, 57, 74-77.	0.3	0