

Miroslav Balaz

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,829
citations

361413

20
h-index

289244

40
g-index

49
all docs

49
docs citations

49
times ranked

3018
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of obesity, diabetes and exercise on <i>Fndc5</i> gene expression and irisin release in human skeletal muscle and adipose tissue: <i>in vivo</i> and <i>in vitro</i> studies. <i>Journal of Physiology</i> , 2014, 592, 1091-1107.	2.9	329
2	snRNA-seq reveals a subpopulation of adipocytes that regulates thermogenesis. <i>Nature</i> , 2020, 587, 98-102.	27.8	221
3	Human brown adipose tissue is phenocopied by classical brown adipose tissue in physiologically humanized mice. <i>Nature Metabolism</i> , 2019, 1, 830-843.	11.9	103
4	Bmp4 Promotes a Brown to White-like Adipocyte Shift. <i>Cell Reports</i> , 2016, 16, 2243-2258.	6.4	95
5	BATLAS: Deconvoluting Brown Adipose Tissue. <i>Cell Reports</i> , 2018, 25, 784-797.e4.	6.4	89
6	Cold-induced epigenetic programming of the sperm enhances brown adipose tissue activity in the offspring. <i>Nature Medicine</i> , 2018, 24, 1372-1383.	30.7	87
7	Peroxisome Proliferator Activated Receptor Gamma Controls Mature Brown Adipocyte Inducibility through Glycerol Kinase. <i>Cell Reports</i> , 2018, 22, 760-773.	6.4	86
8	Peroxisomal β -oxidation acts as a sensor for intracellular fatty acids and regulates lipolysis. <i>Nature Metabolism</i> , 2021, 3, 1648-1661.	11.9	70
9	Structure-function relationships of HDL in diabetes and coronary heart disease. <i>JCI Insight</i> , 2020, 5, .	5.0	62
10	Subcutaneous adipose tissue zinc α -2-glycoprotein is associated with adipose tissue and whole-body insulin sensitivity. <i>Obesity</i> , 2014, 22, 1821-1829.	3.0	61
11	Proteomic Analysis of Human Brown Adipose Tissue Reveals Utilization of Coupled and Uncoupled Energy Expenditure Pathways. <i>Scientific Reports</i> , 2016, 6, 30030.	3.3	60
12	Inhibition of Mevalonate Pathway Prevents Adipocyte Browning in Mice and Men by Affecting Protein Prenylation. <i>Cell Metabolism</i> , 2019, 29, 901-916.e8.	16.2	59
13	Lysosomal lipoprotein processing in endothelial cells stimulates adipose tissue thermogenic adaptation. <i>Cell Metabolism</i> , 2021, 33, 547-564.e7.	16.2	48
14	Exercise-mimicking treatment fails to increase <i>Fndc5</i> mRNA & irisin secretion in primary human myotubes. <i>Peptides</i> , 2014, 56, 1-7.	2.4	46
15	Secretin activates brown fat and induces satiation. <i>Nature Metabolism</i> , 2021, 3, 798-809.	11.9	41
16	Identification of a regulatory pathway inhibiting adipogenesis via RSPO2. <i>Nature Metabolism</i> , 2022, 4, 90-105.	11.9	39
17	Antioxidants protect against diabetes by improving glucose homeostasis in mouse models of inducible insulin resistance and obesity. <i>Diabetologia</i> , 2019, 62, 2094-2105.	6.3	38
18	Regulation of De Novo Adipocyte Differentiation Through Cross Talk Between Adipocytes and Preadipocytes. <i>Diabetes</i> , 2015, 64, 4075-4087.	0.6	33

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19	Interrelation of >31 MRS metabolism measurements in resting and exercised quadriceps muscle of overweight/obese sedentary individuals. <i>NMR in Biomedicine</i> , 2013, 26, 1714-1722.	2.8	29
20	Outdoor Temperature Influences Cold Induced Thermogenesis in Humans. <i>Frontiers in Physiology</i> , 2018, 9, 1184.	2.8	28
21	Relation of diet-induced thermogenesis to brown adipose tissue activity in healthy men. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2021, 320, E93-E101.	3.5	20
22	Asymmetric cell division shapes naive and virtual memory T-cell immunity during ageing. <i>Nature Communications</i> , 2021, 12, 2715.	12.8	19
23	Cold Exposure Distinctively Modulates Parathyroid and Thyroid Hormones in Cold-Acclimatized and Non-Acclimatized Humans. <i>Endocrinology</i> , 2020, 161, .	2.8	16
24	Repeated immobilization stress induces catecholamine production in rat mesenteric adipocytes. <i>Stress</i> , 2013, 16, 340-352.	1.8	14
25	Serum Afamin a Novel Marker of Increased Hepatic Lipid Content. <i>Frontiers in Endocrinology</i> , 2021, 12, 670425.	3.5	14
26	GPR180 is a component of TGF β 2 signalling that promotes thermogenic adipocyte function and mediates the metabolic effects of the adipocyte-secreted factor CTHRC1. <i>Nature Communications</i> , 2021, 12, 7144.	12.8	14
27	Improved adipose tissue metabolism after 5-year growth hormone replacement therapy in growth hormone deficient adults: The role of zinc- α 2-glycoprotein. <i>Adipocyte</i> , 2015, 4, 113-122.	2.8	12
28	Quantification of adipocyte numbers following adipose tissue remodeling. <i>Cell Reports</i> , 2021, 35, 109023.	6.4	12
29	Adipokine zinc- α 2-glycoprotein regulated by growth hormone and linked to insulin sensitivity. <i>Obesity</i> , 2015, 23, 322-328.	3.0	9
30	Metabolomic Analysis Reveals Changes in Plasma Metabolites in Response to Acute Cold Stress and Their Relationships to Metabolic Health in Cold-Acclimatized Humans. <i>Metabolites</i> , 2021, 11, 619.	2.9	8
31	ESRRG and PERM1 Govern Mitochondrial Conversion in Brite/Beige Adipocyte Formation. <i>Frontiers in Endocrinology</i> , 2020, 11, 387.	3.5	7
32	Low-dose 18F-FDG TOF-PET/MR for accurate quantification of brown adipose tissue in healthy volunteers. <i>EJNMMI Research</i> , 2020, 10, 5.	2.5	7
33	Upper and Lower Body Muscle Power Increases After 3-Month Resistance Training in Overweight and Obese Men. <i>American Journal of Men's Health</i> , 2017, 11, 1728-1738.	1.6	6
34	Free Thyroxine Levels are Associated with Cold Induced Thermogenesis in Healthy Euthyroid Individuals. <i>Frontiers in Endocrinology</i> , 2021, 12, 666595.	3.5	6
35	Muscular Power during a Lifting Task Increases after Three Months of Resistance Training in Overweight and Obese Individuals. <i>Sports</i> , 2017, 5, 35.	1.7	5
36	Chronic liquid nutrition intake induces obesity and considerable but reversible metabolic alterations in Wistar rats. <i>Journal of Physiology and Biochemistry</i> , 2016, 72, 225-243.	3.0	4

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37	Three months of resistance training in overweight and obese individuals improves reactive balance control under unstable conditions. <i>Journal of Back and Musculoskeletal Rehabilitation</i> , 2017, 30, 353-362.	1.1	4
38	Weight Loss and Adipose Tissue Browning in Humans: The Chicken or the Egg?. <i>Trends in Endocrinology and Metabolism</i> , 2018, 29, 450-452.	7.1	4
39	The effect of 3 months aerobic and resistance training on step initiation speed and foot tapping frequency in the overweight and obese. <i>Sport Sciences for Health</i> , 2017, 13, 331-339.	1.3	3
40	Unilateral Stability and Visual Feedback Body Control Improves After Three-Month Resistance Training in Overweight Individuals. <i>Journal of Motor Behavior</i> , 2017, 49, 398-406.	0.9	3
41	Statins: benefits and risks revisited. <i>Aging</i> , 2019, 11, 4300-4302.	3.1	3
42	Fluvastatin Reduces Glucose Tolerance in Healthy Young Individuals Independently of Cold Induced BAT Activity. <i>Frontiers in Endocrinology</i> , 2021, 12, 765807.	3.5	2
43	GPR3 sets brown fat on fire. <i>Cell Metabolism</i> , 2021, 33, 1271-1273.	16.2	0
44	Lysosomal Lipoprotein Processing in Endothelial Cells Stimulates Adipose Tissue Browning. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0