Miroslav Balaz

List of Publications by Year
in descending order

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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	Identification of a regulatory pathway inhibiting adipogenesis via RSPO2. Nature Metabolism, 2022, 4, 90-105.	11.9	39
2	Relation of diet-induced thermogenesis to brown adipose tissue activity in healthy men. American Journal of Physiology - Endocrinology and Metabolism, 2021, 320, E93-E101.	3.5	20
3	Lysosomal lipoprotein processing in endothelial cells stimulates adipose tissue thermogenic adaptation. Cell Metabolism, 2021, 33, 547-564.e7.	16.2	48
4	Quantification of adipocyte numbers following adipose tissue remodeling. Cell Reports, 2021, 35, 109023.	6.4	12
5	Asymmetric cell division shapes naive and virtual memory T-cell immunity during ageing. Nature Communications, 2021, 12, 2715.	12.8	19
6	Secretin activates brown fat and induces satiation. Nature Metabolism, 2021, 3, 798-809.	11.9	41
7	Free Thyroxine Levels are Associated with Cold Induced Thermogenesis in Healthy Euthyroid Individuals. Frontiers in Endocrinology, 2021, 12, 666595.	3.5	6
8	GPR3 sets brown fat on fire. Cell Metabolism, 2021, 33, 1271-1273.	16.2	0
9	Serum Afamin a Novel Marker of Increased Hepatic Lipid Content. Frontiers in Endocrinology, 2021, 12, 670425.	3.5	14
10	Metabolomic Analysis Reveals Changes in Plasma Metabolites in Response to Acute Cold Stress and Their Relationships to Metabolic Health in Cold-Acclimatized Humans. Metabolites, 2021, 11, 619.	2.9	8
11	Fluvastatin Reduces Glucose Tolerance in Healthy Young Individuals Independently of Cold Induced BAT Activity. Frontiers in Endocrinology, 2021, 12, 765807.	3.5	2
12	Peroxisomal Î²-oxidation acts as a sensor for intracellular fatty acids and regulates lipolysis. Nature Metabolism, 2021, 3, 1648-1661.	11.9	70
13	GPR180 is a component of TGFÎ² signalling that promotes thermogenic adipocyte function and mediates the metabolic effects of the adipocyte-secreted factor CTHRC1. Nature Communications, 2021, 12, 7144.	12.8	14
14	snRNA-seq reveals a subpopulation of adipocytes that regulates thermogenesis. Nature, 2020, 587, 98-102.	27.8	221
15	ESRRG and PERM1 Govern Mitochondrial Conversion in Brite/Beige Adipocyte Formation. Frontiers in Endocrinology, 2020, 11, 387.	3.5	7
16	Cold Exposure Distinctively Modulates Parathyroid and Thyroid Hormones in Cold-Acclimatized and Non-Acclimatized Humans. Endocrinology, 2020, 161, .	2.8	16
17	Structure-function relationships of HDL in diabetes and coronary heart disease. JCI Insight, 2020, 5, .	5.0	62
18	Low-dose 18F-FDG TOF-PET/MR for accurate quantification of brown adipose tissue in healthy volunteers. EJNMMI Research, 2020, 10, 5.	2.5	7

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19	Human brown adipose tissue is phenocopied by classical brown adipose tissue in physiologically humanized mice. Nature Metabolism, 2019, 1, 830-843.	11.9	103
20	Antioxidants protect against diabetes by improving glucose homeostasis in mouse models of inducible insulin resistance and obesity. Diabetologia, 2019, 62, 2094-2105.	6.3	38
21	Inhibition of Mevalonate Pathway Prevents Adipocyte Browning in Mice and Men by Affecting Protein Prenylation. Cell Metabolism, 2019, 29, 901-916.e8.	16.2	59
22	Statins: benefits and risks revisited. Aging, 2019, 11, 4300-4302.	3.1	3
23	Peroxisome Proliferator Activated Receptor Gamma Controls Mature Brown Adipocyte Inducibility through Glycerol Kinase. Cell Reports, 2018, 22, 760-773.	6.4	86
24	Weight Loss and Adipose Tissue Browning in Humans: The Chicken or the Egg?. Trends in Endocrinology and Metabolism, 2018, 29, 450-452.	7.1	4
25	BATLAS: Deconvoluting Brown Adipose Tissue. Cell Reports, 2018, 25, 784-797.e4.	6.4	89
26	Outdoor Temperature Influences Cold Induced Thermogenesis in Humans. Frontiers in Physiology, 2018, 9, 1184.	2.8	28
27	Cold-induced epigenetic programming of the sperm enhances brown adipose tissue activity in the offspring. Nature Medicine, 2018, 24, 1372-1383.	30.7	87
28	The effect of 3Âmonths aerobic and resistance training on step initiation speed and foot tapping frequency in the overweight and obese. Sport Sciences for Health, 2017, 13, 331-339.	1.3	3
29	Three months of resistance training in overweight and obese individuals improves reactive balance control under unstable conditions. Journal of Back and Musculoskeletal Rehabilitation, 2017, 30, 353-362.	1.1	4
30	Unilateral Stability and Visual Feedback Body Control Improves After Three-Month Resistance Training in Overweight Individuals. Journal of Motor Behavior, 2017, 49, 398-406.	0.9	3
31	Upper and Lower Body Muscle Power Increases After 3-Month Resistance Training in Overweight and Obese Men. American Journal of Men's Health, 2017, 11, 1728-1738.	1.6	6
32	Muscular Power during a Lifting Task Increases after Three Months of Resistance Training in Overweight and Obese Individuals. Sports, 2017, 5, 35.	1.7	5
33	Bmp4 Promotes a Brown to White-like AdipocyteÂShift. Cell Reports, 2016, 16, 2243-2258.	6.4	95
34	Proteomic Analysis of Human Brown Adipose Tissue Reveals Utilization of Coupled and Uncoupled Energy Expenditure Pathways. Scientific Reports, 2016, 6, 30030.	3.3	60
35	Chronic liquid nutrition intake induces obesity and considerable but reversible metabolic alterations in Wistar rats. Journal of Physiology and Biochemistry, 2016, 72, 225-243.	3.0	4
36	Adipokine zinc-Î±2-glycoprotein regulated by growth hormone and linked to insulin sensitivity. Obesity, 2015, 23, 322-328.	3.0	9

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37	Improved adipose tissue metabolism after 5-year growth hormone replacement therapy in growth hormone deficient adults: The role of zinc-Î±2-glycoprotein. Adipocyte, 2015, 4, 113-122.	2.8	12
38	Regulation of De Novo Adipocyte Differentiation Through Cross Talk Between Adipocytes and Preadipocytes. Diabetes, 2015, 64, 4075-4087.	0.6	33
39	Effects of obesity, diabetes and exercise on Fndc5 gene expression and irisin release in human skeletal muscle and adipose tissue: in vivo and in vitro studies. Journal of Physiology, 2014, 592, 1091-1107.	2.9	329
40	Exercise-mimicking treatment fails to increase Fndc5 mRNA & irisin secretion in primary human myotubes. Peptides, 2014, 56, 1-7.	2.4	46
41	Subcutaneous adipose tissue zincâ€Î±2â€glycoprotein is associated with adipose tissue and wholeâ€body insulin sensitivity. Obesity, 2014, 22, 1821-1829.	3.0	61
42	Repeated immobilization stress induces catecholamine production in rat mesenteric adipocytes. Stress, 2013, 16, 340-352.	1.8	14
43	Interrelation of ³¹Pâ€MRS metabolism measurements in resting and exercised quadriceps muscle of overweightâ€toâ€obese sedentary individuals. NMR in Biomedicine, 2013, 26, 1714-1722.	2.8	29
44	Lysosomal Lipoprotein Processing in Endothelial Cells Stimulates Adipose Tissue Browning. SSRN Electronic Journal, 0, , .	0.4	0