

# Barbara Ukropcova

## List of Publications by Year in descending order

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Version: 2024-02-01

81  
papers

3,463  
citations

236833

25  
h-index

143943

57  
g-index

82  
all docs

82  
docs citations

82  
times ranked

5722  
citing authors

#	ARTICLE	IF	CITATIONS
1	Calorie Restriction Increases Muscle Mitochondrial Biogenesis in Healthy Humans. <i>PLoS Medicine</i> , 2007, 4, e76.	3.9	654
2	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.	1.3	329
3	Dietary obesity-associated Hif1 $\alpha$ activation in adipocytes restricts fatty acid oxidation and energy expenditure via suppression of the Sirt2-NAD <sup>+</sup> system. <i>Genes and Development</i> , 2012, 26, 259-270.	2.7	264
4	Role of adiponectin in human skeletal muscle bioenergetics. <i>Cell Metabolism</i> , 2006, 4, 75-87.	7.2	202
5	Dynamic changes in fat oxidation in human primary myocytes mirror metabolic characteristics of the donor. <i>Journal of Clinical Investigation</i> , 2005, 115, 1934-1941.	3.9	169
6	Family History of Diabetes Links Impaired Substrate Switching and Reduced Mitochondrial Content in Skeletal Muscle. <i>Diabetes</i> , 2007, 56, 720-727.	0.3	147
7	Structural and Functional Consequences of Mitochondrial Biogenesis in Human Adipocytes <i>In Vitro</i> . <i>Journal of Clinical Endocrinology and Metabolism</i> , 2005, 90, 6650-6656.	1.8	123
8	Effects of carnosine supplementation on glucose metabolism: Pilot clinical trial. <i>Obesity</i> , 2016, 24, 1027-1034.	1.5	116
9	Bmp4 Promotes a Brown to White-like Adipocyte Shift. <i>Cell Reports</i> , 2016, 16, 2243-2258.	2.9	95
10	An acute bout of aerobic or strength exercise specifically modifies circulating exerkine levels and neurocognitive functions in elderly individuals with mild cognitive impairment. <i>NeuroImage: Clinical</i> , 2018, 17, 272-284.	1.4	92
11	Distinctive Effects of Aerobic and Resistance Exercise Modes on Neurocognitive and Biochemical Changes in Individuals with Mild Cognitive Impairment. <i>Current Alzheimer Research</i> , 2019, 16, 316-332.	0.7	82
12	The Potential of Carnosine in Brain-Related Disorders: A Comprehensive Review of Current Evidence. <i>Nutrients</i> , 2019, 11, 1196.	1.7	68
13	Physiological and therapeutic effects of carnosine on cardiometabolic risk and disease. <i>Amino Acids</i> , 2016, 48, 1131-1149.	1.2	63
14	Subcutaneous adipose tissue zinc $\alpha$ 2-glycoprotein is associated with adipose tissue and whole-body insulin sensitivity. <i>Obesity</i> , 2014, 22, 1821-1829.	1.5	61
15	Inhibition of Mevalonate Pathway Prevents Adipocyte Browning in Mice and Men by Affecting Protein Prenylation. <i>Cell Metabolism</i> , 2019, 29, 901-916.e8.	7.2	59
16	A carnosine intervention study in overweight human volunteers: bioavailability and reactive carbonyl species sequestering effect. <i>Scientific Reports</i> , 2016, 6, 27224.	1.6	53
17	Exercise-mimicking treatment fails to increase <i>Fndc5</i> mRNA & irisin secretion in primary human myotubes. <i>Peptides</i> , 2014, 56, 1-7.	1.2	46
18	Remodeling Lipid Metabolism and Improving Insulin Responsiveness in Human Primary Myotubes. <i>PLoS ONE</i> , 2011, 6, e21068.	1.1	45

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19	Adipokine Protein Expression Pattern in Growth Hormone Deficiency Predisposes to the Increased Fat Cell Size and the Whole Body Metabolic Derangements. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2008, 93, 2255-2262.	1.8	44
20	Relation of adipose tissue to metabolic flexibility. <i>Diabetes Research and Clinical Practice</i> , 2009, 83, 32-43.	1.1	41
21	Acute and regular exercise distinctly modulate serum, plasma and skeletal muscle BDNF in the elderly. <i>Neuropeptides</i> , 2019, 78, 101961.	0.9	41
22	Depth-resolved surface coil MRS (DRESS)-localized dynamic <sup>31</sup> P-MRS of the exercising human gastrocnemius muscle at 7 T. <i>NMR in Biomedicine</i> , 2014, 27, 1346-1352.	1.6	35
23	Regulation of De Novo Adipocyte Differentiation Through Cross Talk Between Adipocytes and Preadipocytes. <i>Diabetes</i> , 2015, 64, 4075-4087.	0.3	33
24	Interrelation of <sup>31</sup> P-MRS metabolism measurements in resting and exercised quadriceps muscle of overweight-to-obese sedentary individuals. <i>NMR in Biomedicine</i> , 2013, 26, 1714-1722.	1.6	29
25	TUSC5 regulates insulin-mediated adipose tissue glucose uptake by modulation of GLUT4 recycling. <i>Molecular Metabolism</i> , 2015, 4, 795-810.	3.0	29
26	Muscle Carnosine Is Associated with Cardiometabolic Risk Factors in Humans. <i>PLoS ONE</i> , 2015, 10, e0138707.	1.1	29
27	Adipose tissue and skeletal muscle plasticity modulates metabolic health. <i>Archives of Physiology and Biochemistry</i> , 2008, 114, 357-368.	1.0	26
28	Skeletal muscle alkaline Pi pool is decreased in overweight-to-obese sedentary subjects and relates to mitochondrial capacity and phosphodiester content. <i>Scientific Reports</i> , 2016, 6, 20087.	1.6	26
29	Metabolic Phenotype and Adipose Tissue Inflammation in Patients with Chronic Obstructive Pulmonary Disease. <i>Mediators of Inflammation</i> , 2010, 2010, 1-9.	1.4	24
30	Muscle Histidine-Containing Dipeptides Are Elevated by Glucose Intolerance in Both Rodents and Men. <i>PLoS ONE</i> , 2015, 10, e0121062.	1.1	24
31	Increased Adipose Tissue Expression of Proinflammatory CD40, MKK4 and JNK in Patients with Very Severe Chronic Obstructive Pulmonary Disease. <i>Respiration</i> , 2011, 81, 386-393.	1.2	23
32	Effect of carnosine supplementation on the plasma lipidome in overweight and obese adults: a pilot randomised controlled trial. <i>Scientific Reports</i> , 2017, 7, 17458.	1.6	23
33	Aerobic-Strength Exercise Improves Metabolism and Clinical State in Parkinson's Disease Patients. <i>Frontiers in Neurology</i> , 2017, 8, 698.	1.1	23
34	Relationship between osteoporosis and adipose tissue leptin and osteoprotegerin in patients with chronic obstructive pulmonary disease. <i>Bone</i> , 2011, 48, 1008-1014.	1.4	22
35	Improved spectral resolution and high reliability of in vivo <sup>1</sup> H MRS at 7 T allow the characterization of the effect of acute exercise on carnosine in skeletal muscle. <i>NMR in Biomedicine</i> , 2016, 29, 24-32.	1.6	22
36	The Role of Physical Fitness in the Neurocognitive Performance of Task Switching in Older Persons with Mild Cognitive Impairment. <i>Journal of Alzheimer's Disease</i> , 2016, 53, 143-159.	1.2	22

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37	Effects of running on adiponectin, insulin and cytokines in cerebrospinal fluid in healthy young individuals. <i>Scientific Reports</i> , 2019, 9, 1959.	1.6	22
38	Carnosine Supplementation Improves Serum Resistin Concentrations in Overweight or Obese Otherwise Healthy Adults: A Pilot Randomized Trial. <i>Nutrients</i> , 2018, 10, 1258.	1.7	19
39	Real-time Correction of Motion and Imager Instability Artifacts during 3D $^1\text{H}$ -Aminobutyric Acid-edited MR Spectroscopic Imaging. <i>Radiology</i> , 2018, 286, 666-675.	3.6	17
40	Cold Exposure Distinctively Modulates Parathyroid and Thyroid Hormones in Cold-Acclimatized and Non-Acclimatized Humans. <i>Endocrinology</i> , 2020, 161, .	1.4	16
41	Alterations in activin A "myostatin" follistatin system associate with disease activity in inflammatory myopathies. <i>Rheumatology</i> , 2020, 59, 2491-2501.	0.9	15
42	Repeated immobilization stress induces catecholamine production in rat mesenteric adipocytes. <i>Stress</i> , 2013, 16, 340-352.	0.8	14
43	Serum Afamin a Novel Marker of Increased Hepatic Lipid Content. <i>Frontiers in Endocrinology</i> , 2021, 12, 670425.	1.5	14
44	GPR180 is a component of $\text{TGF}\beta^2$ signalling that promotes thermogenic adipocyte function and mediates the metabolic effects of the adipocyte-secreted factor CTHRC1. <i>Nature Communications</i> , 2021, 12, 7144.	5.8	14
45	Improved adipose tissue metabolism after 5-year growth hormone replacement therapy in growth hormone deficient adults: The role of zinc- $\alpha$ 2-glycoprotein. <i>Adipocyte</i> , 2015, 4, 113-122.	1.3	12
46	Circulatory and Adipose Tissue Leptin and Adiponectin in Relationship to Resting Energy Expenditure in Patients With Chronic Obstructive Pulmonary Disease. <i>Physiological Research</i> , 2012, 61, 469-480.	0.4	12
47	Carnosine supplementation reduces plasma soluble transferrin receptor in healthy overweight or obese individuals: a pilot randomised trial. <i>Amino Acids</i> , 2019, 51, 73-81.	1.2	10
48	Multinuclear MRS at 7T Uncovers Exercise Driven Differences in Skeletal Muscle Energy Metabolism Between Young and Seniors. <i>Frontiers in Physiology</i> , 2020, 11, 644.	1.3	10
49	Acute Effects of Different Exercise Intensities on Executive Function and Oculomotor Performance in Middle-Aged and Older Adults: Moderate-Intensity Continuous Exercise vs. High-Intensity Interval Exercise. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 743479.	1.7	10
50	Adipokine zinc- $\alpha$ 2-glycoprotein regulated by growth hormone and linked to insulin sensitivity. <i>Obesity</i> , 2015, 23, 322-328.	1.5	9
51	Cerebrospinal fluid and plasma metabolomics of acute endurance exercise. <i>FASEB Journal</i> , 2022, 36, .	0.2	9
52	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.	1.3	8
53	Effects of Hypoxia on Adipose Tissue Expression of $\text{NF}\kappa\text{B}$ , $\text{IL}1\beta$ , $\text{IKK}\beta$ and IKAP in Patients with Chronic Obstructive Pulmonary Disease. <i>Cell Biochemistry and Biophysics</i> , 2013, 66, 7-12.	0.9	6
54	O2-08-05: Combined aerobic-strength exercise improves cognitive functions in patients with mild cognitive impairment. , 2015, 11, P193-P193.		6

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55	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.	0.7	6
56	Chemotherapy-induced toxicity in patients with testicular germ cell tumors: The impact of physical fitness and regular exercise. <i>Andrology</i> , 2021, 9, 1879-1892.	1.9	6
57	Muscular Power during a Lifting Task Increases after Three Months of Resistance Training in Overweight and Obese Individuals. <i>Sports</i> , 2017, 5, 35.	0.7	5
58	Ultralong TE In Vivo 1 H MR Spectroscopy of Omega-3 Fatty Acids in Subcutaneous Adipose Tissue at 7 T. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 71-82.	1.9	5
59	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.	0.4	4
60	The effectiveness of two different multimodal training modes on physical performance in elderly. <i>European Journal of Translational Myology</i> , 2020, 30, 88-97.	0.8	4
61	Genetic analysis of single-minded 1 gene in early-onset severely obese children and adolescents. <i>PLoS ONE</i> , 2017, 12, e0177222.	1.1	4
62	MyomiRs in cultured muscle cells from patients with idiopathic inflammatory myopathy are modulated by disease but not by 6-month exercise training. <i>Clinical and Experimental Rheumatology</i> , 2022, 40, 346-357.	0.4	4
63	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.	0.4	3
64	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.	0.5	3
65	Allelic Distribution of Genes for Apolipoprotein E and MTHFR in Patients with Alzheimer's Disease and Their Epistatic Interaction. <i>Journal of Alzheimer's Disease</i> , 2020, 77, 1095-1105.	1.2	3
66	Strength training as a supplemental therapy for androgen deficiency of the aging male (ADAM): study protocol for a three-arm clinical trial. <i>BMJ Open</i> , 2019, 9, e025991.	0.8	2
67	Altered dynamics of lipid metabolism in muscle cells from patients with idiopathic inflammatory myopathy is ameliorated by 6 months of training. <i>Journal of Physiology</i> , 2021, 599, 207-229.	1.3	2
68	Macronutrient preferences in patients with chronic obstructive pulmonary disease and hypoxemia. <i>Nutrition</i> , 2011, 27, 1093-1094.	1.1	1
69	O3: A LINK BETWEEN COGNITIVE FUNCTION AND PHYSICAL ACTIVITY: THE IMPACT OF AEROBIC STRENGTH EXERCISE IN SENIORS WITH MILD COGNITIVE IMPAIRMENT AND/OR IMPAIRED GLUCOSE METABOLISM. <i>Alzheimer's and Dementia</i> , 2018, 14, P1030.	0.4	1
70	The role of physical activity in the management of patients with Parkinson's disease. <i>Ceska A Slovenska Neurologie A Neurochirurgie</i> , 2019, 82/115, 496-504.	0.0	1
71	Clusterin is upregulated in serum and muscle tissue in idiopathic inflammatory myopathies and associates with clinical disease activity and cytokine profile. <i>Clinical and Experimental Rheumatology</i> , 2021, 39, 1021-1032.	0.4	1
72	Contrasting Adipose Tissue Expressions Of Proinflammatory And Proapoptotic Cytokines In Obese Versus Cachectic Patients With COPD. , 2011, , .		0

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73	P2154: Effects of Aerobic+Strength Training on Selected Molecular Targets in Cerebrospinal Fluid of Seniors with Mild Cognitive Impairment. Alzheimer's and Dementia, 2016, 12, P673.	0.4	0
74	[P2021]: EFFECTS OF ENDURANCE+STRENGTH TRAINING ON MOTOR FUNCTIONS, COGNITION AND GLUCOSE METABOLISM IN PATIENTS WITH PARKINSON'S DISEASE. Alzheimer's and Dementia, 2017, 13, P612.	0.4	0
75	Cytokine profile in cerebrospinal fluid of elderly individuals is modulated by three-month exercise intervention, in parallel with improvements of physical fitness and cognitive functions. Alzheimer's and Dementia, 2020, 16, e042159.	0.4	0
76	Repeated and Novel Stress-triggered Changes in Adipocyte Catecholamine System. , 2014, , 226.		0
77	Carnosine Supplementation Reduces Plasma Soluble Transferrin Receptor in Healthy Overweight or Obese Individualsâ€”A Pilot Randomised Trial. Diabetes, 2018, 67, .	0.3	0
78	Carnosine Supplementation Improves Serum Resistin Concentrations in Overweight or Obese but Otherwise Healthy Sedentary Adultsâ€”Results From Randomised Controlled Trial. Diabetes, 2018, 67, 777-P.	0.3	0
79	OP0136â€”...THE INFLUENCE OF LONG-TERM EXERCISE AND IN VITRO EXERCISE-MIMICKING STIMULATION ON THE PRODUCTION OF MYOKINES AND CYTOKINES IN MYOTUBES OF PATIENTS WITH CHRONIC IDIOPATHIC INFLAMMATORY MYOPATHIES. Annals of the Rheumatic Diseases, 2020, 79, 88.2-88.	0.5	0
80	OP0138â€”...CLUSTERIN ASSOCIATES WITH DISEASE MECHANISMS AND INFLAMMATION IN MYOSITIS PATIENTS. Annals of the Rheumatic Diseases, 2020, 79, 89.2-89.	0.5	0
81	MyomiRs in cultured muscle cells from patients with idiopathic inflammatory myopathy are modulated by disease but not by 6-month exercise training.. Clinical and Experimental Rheumatology, 2022, 40, 346-357.	0.4	0