

# Olga R Ilkayeva

## List of Publications by Year in descending order

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Version: 2024-02-01

113  
papers

19,163  
citations

41344

49  
h-index

24258

110  
g-index

117  
all docs

117  
docs citations

117  
times ranked

27560  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metabolomics analysis identifies a lipidomic profile in treatment-naïve juvenile dermatomyositis patients <i>vs</i> healthy control subjects. <i>Rheumatology</i> , 2022, 61, 1699-1708.	1.9	4
2	Nicotinamide riboside supplementation confers marginal metabolic benefits in obese mice without remodeling the muscle acetyl-proteome. <i>IScience</i> , 2022, 25, 103635.	4.1	11
3	Deglutarylation of glutaryl-CoA dehydrogenase by deacylating enzyme SIRT5 promotes lysine oxidation in mice. <i>Journal of Biological Chemistry</i> , 2022, 298, 101723.	3.4	5
4	Urine tricarboxylic acid cycle signatures of early-stage diabetic kidney disease. <i>Metabolomics</i> , 2022, 18, 5.	3.0	8
5	A precision medicine approach to stress testing using metabolomics and microribonucleic acids. <i>Personalized Medicine</i> , 2022, 19, 287-297.	1.5	1
6	Statin therapy inhibits fatty acid synthase via dynamic protein modifications. <i>Nature Communications</i> , 2022, 13, 2542.	12.8	7
7	Metabolomic Profiling of the Effects of Dapagliflozin in Heart Failure With Reduced Ejection Fraction: DEFINE-HF. <i>Circulation</i> , 2022, 146, 808-818.	1.6	33
8	Evaluating immune response and metabolic related biomarkers pre-allogenic hematopoietic stem cell transplant in acute myeloid leukemia. <i>PLoS ONE</i> , 2022, 17, e0268963.	2.5	0
9	Altered branched-chain ð±-keto acid metabolism is a feature of NAFLD in individuals with severe obesity. <i>JCI Insight</i> , 2022, 7, .	5.0	16
10	Muscle KrÃ¼ppel-like factor 15 regulates lipid flux and systemic metabolic homeostasis. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	14
11	The Pediatric Obesity Microbiome and Metabolism Study (POMMS): Methods, Baseline Data, and Early Insights. <i>Obesity</i> , 2021, 29, 569-578.	3.0	19
12	Branched-chain ð±-ketoacids are preferentially reaminated and activate protein synthesis in the heart. <i>Nature Communications</i> , 2021, 12, 1680.	12.8	45
13	BCAA Supplementation in Mice with Diet-induced Obesity Alters the Metabolome Without Impairing Glucose Homeostasis. <i>Endocrinology</i> , 2021, 162, .	2.8	28
14	Urine and Plasma Metabolome of Healthy Adults Consuming the DASH (Dietary Approaches to Stop Hypertension) Diet. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021, 111, 1000-1009.	4.1	5
15	Gut microbiome contributions to altered metabolism in a pig model of undernutrition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	18
16	A phase 2 trial of the somatostatin analog pasireotide to prevent GI toxicity and acute GVHD in allogeneic hematopoietic stem cell transplant. <i>PLoS ONE</i> , 2021, 16, e0252995.	2.5	3
17	Feeding diversified protein sources exacerbates hepatic insulin resistance via increased gut microbial branched-chain fatty acids and mTORC1 signaling in obese mice. <i>Nature Communications</i> , 2021, 12, 3377.	12.8	42
18	Maternal Metabolites Associated With Gestational Diabetes Mellitus and a Postpartum Disorder of Glucose Metabolism. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021, 106, 3283-3294.	3.6	15

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19	Early-life mitochondrial DNA damage results in lifelong deficits in energy production mediated by redox signaling in <i>Caenorhabditis elegans</i> . <i>Redox Biology</i> , 2021, 43, 102000.	9.0	15
20	Effect of Bicarbonate on Net Acid Excretion, Blood Pressure, and Metabolism in Patients With and Without CKD: The Acid Base Compensation in CKD Study. <i>American Journal of Kidney Diseases</i> , 2021, 78, 38-47.	1.9	13
21	Branched-Chain Amino Acid Catabolism and Cardiopulmonary Function Following Acute Maximal Exercise Testing in Adolescents. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 721354.	2.4	4
22	Circulating long chain acylcarnitines and outcomes in diabetic heart failure: an HF-ACTION clinical trial substudy. <i>Cardiovascular Diabetology</i> , 2021, 20, 161.	6.8	8
23	NADH inhibition of SIRT1 links energy state to transcription during time-restricted feeding. <i>Nature Metabolism</i> , 2021, 3, 1621-1632.	11.9	26
24	Dietary branched-chain amino acid restriction alters fuel selection and reduces triglyceride stores in hearts of Zucker fatty rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2020, 318, E216-E223.	3.5	43
25	Muscle-Liver Trafficking of BCAA-Derived Nitrogen Underlies Obesity-Related Glycine Depletion. <i>Cell Reports</i> , 2020, 33, 108375.	6.4	49
26	Nutritional modulation of heart failure in mitochondrial pyruvate carrier-deficient mice. <i>Nature Metabolism</i> , 2020, 2, 1232-1247.	11.9	74
27	Preliminary evidence of effects of potassium chloride on a metabolomic path to diabetes and cardiovascular disease. <i>Metabolomics</i> , 2020, 16, 75.	3.0	2
28	Metabolomic and genetic associations with insulin resistance in pregnancy. <i>Diabetologia</i> , 2020, 63, 1783-1795.	6.3	21
29	TASK-1 and TASK-3 channels modulate pressure overload-induced cardiac remodeling and dysfunction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 318, H566-H580.	3.2	7
30	Macrophage Metabolism of Apoptotic Cell-Derived Arginine Promotes Continual Efferocytosis and Resolution of Injury. <i>Cell Metabolism</i> , 2020, 31, 518-533.e10.	16.2	235
31	FIT2 is an acyl-coenzyme A diphosphatase crucial for endoplasmic reticulum homeostasis. <i>Journal of Cell Biology</i> , 2020, 219, .	5.2	37
32	Biomarkers Associated with Physical Resilience After Hip Fracture. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2020, 75, e166-e172.	3.6	19
33	Age-Related Adverse Inflammatory and Metabolic Changes Begin Early in Adulthood. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2019, 74, 283-289.	3.6	15
34	Plasma MicroRNAs in Established Rheumatoid Arthritis Relate to Adiposity and Altered Plasma and Skeletal Muscle Cytokine and Metabolic Profiles. <i>Frontiers in Immunology</i> , 2019, 10, 1475.	4.8	13
35	Effects of microbiota-directed foods in gnotobiotic animals and undernourished children. <i>Science</i> , 2019, 365, .	12.6	305
36	Modification of messenger RNA by 2-O-methylation regulates gene expression in vivo. <i>Nature Communications</i> , 2019, 10, 3401.	12.8	134

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37	Type-2-Diabetes Alters CSF but Not Plasma Metabolomic and AD Risk Profiles in Vervet Monkeys. <i>Frontiers in Neuroscience</i> , 2019, 13, 843.	2.8	17
38	BCAA catabolism in brown fat controls energy homeostasis through SLC25A44. <i>Nature</i> , 2019, 572, 614-619.	27.8	332
39	Cord Blood Metabolomics: Association With Newborn Anthropometrics and C-Peptide Across Ancestries. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2019, 104, 4459-4472.	3.6	30
40	Dietary Sugars Alter Hepatic Fatty Acid Oxidation via Transcriptional and Post-translational Modifications of Mitochondrial Proteins. <i>Cell Metabolism</i> , 2019, 30, 735-753.e4.	16.2	136
41	A Mitochondrial Progesterone Receptor Increases Cardiac Beta-Oxidation and Remodeling. <i>Journal of the Endocrine Society</i> , 2019, 3, 446-467.	0.2	15
42	Cellular energetics and mitochondrial uncoupling in canine aging. <i>GeroScience</i> , 2019, 41, 229-242.	4.6	27
43	Respiratory Phenomics across Multiple Models of Protein Hyperacetylation in Cardiac Mitochondria Reveals a Marginal Impact on Bioenergetics. <i>Cell Reports</i> , 2019, 26, 1557-1572.e8.	6.4	39
44	SIRT6 Promotes Hepatic Beta-Oxidation via Activation of PPAR $\alpha$ . <i>Cell Reports</i> , 2019, 29, 4127-4143.e8.	6.4	68
45	Maternal metabolites during pregnancy are associated with newborn outcomes and hyperinsulinaemia across ancestries. <i>Diabetologia</i> , 2019, 62, 473-484.	6.3	43
46	Improvement in insulin resistance after gastric bypass surgery is correlated with a decline in plasma 2-hydroxybutyric acid. <i>Surgery for Obesity and Related Diseases</i> , 2018, 14, 1126-1132.	1.2	17
47	N6-methyladenosine contributes to cellular phenotype in a genetically-defined model of breast cancer progression. <i>Oncotarget</i> , 2018, 9, 31231-31243.	1.8	28
48	Temporal dynamics of liver mitochondrial protein acetylation and succinylation and metabolites due to high fat diet and/or excess glucose or fructose. <i>PLoS ONE</i> , 2018, 13, e0208973.	2.5	38
49	Adverse Effects of Fenofibrate in Mice Deficient in the Protein Quality Control Regulator, CHIP. <i>Journal of Cardiovascular Development and Disease</i> , 2018, 5, 43.	1.6	7
50	Cord Blood Metabolites Associated with Newborn Adiposity and Hyperinsulinemia. <i>Journal of Pediatrics</i> , 2018, 203, 144-149.e1.	1.8	26
51	The BCKDH Kinase and Phosphatase Integrate BCAA and Lipid Metabolism via Regulation of ATP-Citrate Lyase. <i>Cell Metabolism</i> , 2018, 27, 1281-1293.e7.	16.2	222
52	Remodeling of the Acetylproteome by SIRT3 Manipulation Fails to Affect Insulin Secretion or $\beta$ Cell Metabolism in the Absence of Overnutrition. <i>Cell Reports</i> , 2018, 24, 209-223.e6.	6.4	26
53	Dietary Patterns among Asian Indians Living in the United States Have Distinct Metabolomic Profiles That Are Associated with Cardiometabolic Risk. <i>Journal of Nutrition</i> , 2018, 148, 1150-1159.	2.9	29
54	Kruppel-like factor 15 is required for the cardiac adaptive response to fasting. <i>PLoS ONE</i> , 2018, 13, e0192376.	2.5	10

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55	Physiological mechanisms of sustained fumagillin-induced weight loss. JCI Insight, 2018, 3, .	5.0	8
56	Associations of maternal BMI and insulin resistance with the maternal metabolome and newborn outcomes. Diabetologia, 2017, 60, 518-530.	6.3	71
57	Mixture model normalization for non-targeted gas chromatography/mass spectrometry metabolomics data. BMC Bioinformatics, 2017, 18, 84.	2.6	37
58	Sildenafil Treatment in Heart Failure With Preserved Ejection Fraction. JAMA Cardiology, 2017, 2, 896.	6.1	31
59	<i>N</i> <sup>6</sup> -methyladenosine is required for the hypoxic stabilization of specific mRNAs. Rna, 2017, 23, 1444-1455.	3.5	92
60	Targeted Metabolomics Demonstrates Distinct and Overlapping Maternal Metabolites Associated With BMI, Glucose, and Insulin Sensitivity During Pregnancy Across Four Ancestry Groups. Diabetes Care, 2017, 40, 911-919.	8.6	38
61	SIRT4 Is a Lysine Deacylase that Controls Leucine Metabolism and Insulin Secretion. Cell Metabolism, 2017, 25, 838-855.e15.	16.2	259
62	A Class of Reactive Acyl-CoA Species Reveals the Non-enzymatic Origins of Protein Acylation. Cell Metabolism, 2017, 25, 823-837.e8.	16.2	205
63	Prior Dietary Practices and Connections to a Human Gut Microbial Metacommunity Alter Responses to Diet Interventions. Cell Host and Microbe, 2017, 21, 84-96.	11.0	129
64	Maternal BMI and Glycemia Impact the Fetal Metabolome. Diabetes Care, 2017, 40, 902-910.	8.6	74
65	Metabolomic analysis of insulin resistance across different mouse strains and diets. Journal of Biological Chemistry, 2017, 292, 19135-19145.	3.4	36
66	Divergent effects of glucose and fructose on hepatic lipogenesis and insulin signaling. Journal of Clinical Investigation, 2017, 127, 4059-4074.	8.2	233
67	Hepatic mTORC1 Opposes Impaired Insulin Action to Control Mitochondrial Metabolism in Obesity. Cell Reports, 2016, 16, 508-519.	6.4	34
68	Branched-chain amino acid restriction in Zucker-fatty rats improves muscle insulin sensitivity by enhancing efficiency of fatty acid oxidation and acyl-glycine export. Molecular Metabolism, 2016, 5, 538-551.	6.5	210
69	Catabolic Defect of Branched-Chain Amino Acids Promotes Heart Failure. Circulation, 2016, 133, 2038-2049.	1.6	390
70	Metabolic Networks and Metabolites Underlie Associations Between Maternal Glucose During Pregnancy and Newborn Size at Birth. Diabetes, 2016, 65, 2039-2050.	0.6	49
71	Research Resource: Roles for Calcium/Calmodulin-Dependent Protein Kinase Kinase 2 (CaMKK2) in Systems Metabolism. Molecular Endocrinology, 2016, 30, 557-572.	3.7	29
72	Enhanced GLUT4-Dependent Glucose Transport Relieves Nutrient Stress in Obese Mice Through Changes in Lipid and Amino Acid Metabolism. Diabetes, 2016, 65, 3585-3597.	0.6	24

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73	Metabolomic Profiling Identifies Novel Circulating Biomarkers of Mitochondrial Dysfunction Differentially Elevated in Heart Failure With Preserved Versus Reduced Ejection Fraction: Evidence for Shared Metabolic Impairments in Clinical Heart Failure. <i>Journal of the American Heart Association</i> , 2016, 5, .	3.7	178
74	Effects of a gut pathobiont in a gnotobiotic mouse model of childhood undernutrition. <i>Science Translational Medicine</i> , 2016, 8, 366ra164.	12.4	54
75	HIV-1 Envelope Mimicry of Host Enzyme Kynureninase Does Not Disrupt Tryptophan Metabolism. <i>Journal of Immunology</i> , 2016, 197, 4663-4673.	0.8	6
76	N6 -Methyladenosine in Flaviviridae Viral RNA Genomes Regulates Infection. <i>Cell Host and Microbe</i> , 2016, 20, 654-665.	11.0	370
77	Lipids Reprogram Metabolism to Become a Major Carbon Source for Histone Acetylation. <i>Cell Reports</i> , 2016, 17, 1463-1472.	6.4	266
78	Prognostic Implications of Long-Chain Acylcarnitines in Heart Failure and Reversibility With Mechanical Circulatory Support. <i>Journal of the American College of Cardiology</i> , 2016, 67, 291-299.	2.8	143
79	Sialylated Milk Oligosaccharides Promote Microbiota-Dependent Growth in Models of Infant Undernutrition. <i>Cell</i> , 2016, 164, 859-871.	28.9	497
80	The Gut Microbiota Modulates Energy Metabolism in the Hibernating Brown Bear <i>Ursus arctos</i> . <i>Cell Reports</i> , 2016, 14, 1655-1661.	6.4	290
81	The Acetyl Group Buffering Action of Carnitine Acetyltransferase Offsets Macronutrient-Induced Lysine Acetylation of Mitochondrial Proteins. <i>Cell Reports</i> , 2016, 14, 243-254.	6.4	77
82	ACLY and ACC1 Regulate Hypoxia-Induced Apoptosis by Modulating ETV4 via $\alpha$ -ketoglutarate. <i>PLoS Genetics</i> , 2015, 11, e1005599.	3.5	36
83	Dynamic Metabolite Profiling in an Archaeon Connects Transcriptional Regulation to Metabolic Consequences. <i>PLoS ONE</i> , 2015, 10, e0135693.	2.5	14
84	Cardiomyocyte glucagon receptor signaling modulates outcomes in mice with experimental myocardial infarction. <i>Molecular Metabolism</i> , 2015, 4, 132-143.	6.5	54
85	Neuronal CRTC-1 Governs Systemic Mitochondrial Metabolism and Lifespan via a Catecholamine Signal. <i>Cell</i> , 2015, 160, 842-855.	28.9	175
86	HIF-1 Alpha Regulates the Response of Primary Sarcomas to Radiation Therapy through a Cell Autonomous Mechanism. <i>Radiation Research</i> , 2015, 183, 594.	1.5	41
87	Carnitine Acetyltransferase Mitigates Metabolic Inertia and Muscle Fatigue during Exercise. <i>Cell Metabolism</i> , 2015, 22, 65-76.	16.2	78
88	Metabolomic analysis reveals altered skeletal muscle amino acid and fatty acid handling in obese humans. <i>Obesity</i> , 2015, 23, 981-988.	3.0	53
89	Metabolic profiling in Prader-Willi syndrome and nonsyndromic obesity: sex differences and the role of growth hormone. <i>Clinical Endocrinology</i> , 2015, 83, 797-805.	2.4	33
90	Long-chain Acylcarnitines Reduce Lung Function by Inhibiting Pulmonary Surfactant. <i>Journal of Biological Chemistry</i> , 2015, 290, 23897-23904.	3.4	46

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91	Impact of combined resistance and aerobic exercise training on branched-chain amino acid turnover, glycine metabolism and insulin sensitivity in overweight humans. <i>Diabetologia</i> , 2015, 58, 2324-2335.	6.3	103
92	Phosphoproteomic Profiling of Human Myocardial Tissues Distinguishes Ischemic from Non-Ischemic End Stage Heart Failure. <i>PLoS ONE</i> , 2014, 9, e104157.	2.5	39
93	Acyl-CoA thioesterase-2 facilitates mitochondrial fatty acid oxidation in the liver. <i>Journal of Lipid Research</i> , 2014, 55, 2458-2470.	4.2	64
94	Lysine Glutarylation Is a Protein Posttranslational Modification Regulated by SIRT5. <i>Cell Metabolism</i> , 2014, 19, 605-617.	16.2	647
95	Energy Metabolic Reprogramming in the Hypertrophied and Early Stage Failing Heart. <i>Circulation: Heart Failure</i> , 2014, 7, 1022-1031.	3.9	233
96	BMI, RQ, Diabetes, and Sex Affect the Relationships Between Amino Acids and Clamp Measures of Insulin Action in Humans. <i>Diabetes</i> , 2014, 63, 791-800.	0.6	76
97	Brain Insulin Lowers Circulating BCAA Levels by Inducing Hepatic BCAA Catabolism. <i>Cell Metabolism</i> , 2014, 20, 898-909.	16.2	124
98	Obesity and lipid stress inhibit carnitine acetyltransferase activity. <i>Journal of Lipid Research</i> , 2014, 55, 635-644.	4.2	80
99	Circadian Clock NAD <sup>+</sup> Cycle Drives Mitochondrial Oxidative Metabolism in Mice. <i>Science</i> , 2013, 342, 1243-1247.	12.6	525
100	Gut Microbiota from Twins Discordant for Obesity Modulate Metabolism in Mice. <i>Science</i> , 2013, 341, 1241-1244.	12.6	3,006
101	SIRT5 Regulates the Mitochondrial Lysine Succinylome and Metabolic Networks. <i>Cell Metabolism</i> , 2013, 18, 920-933.	16.2	549
102	Metabolomic Profiling Reveals a Role for Caspase-2 in Lipoapoptosis. <i>Journal of Biological Chemistry</i> , 2013, 288, 14463-14475.	3.4	41
103	Effect of Roux-en-Y Gastric Bypass and Laparoscopic Adjustable Gastric Banding on Branched-Chain Amino Acid Metabolism. <i>Diabetes</i> , 2013, 62, 2757-2761.	0.6	108
104	Impact of parenteral lipid emulsions on the metabolomic phenotype in preterm TPN-fed piglets. <i>FASEB Journal</i> , 2013, 27, 1073.11.	0.5	0
105	Muscle-Specific Deletion of Carnitine Acetyltransferase Compromises Glucose Tolerance and Metabolic Flexibility. <i>Cell Metabolism</i> , 2012, 15, 764-777.	16.2	307
106	SIRT3 regulates mitochondrial fatty-acid oxidation by reversible enzyme deacetylation. <i>Nature</i> , 2010, 464, 121-125.	27.8	1,388
107	Metabolic profiling of PPAR $\alpha$ mice reveals defects in carnitine and amino acid homeostasis that are partially reversed by oral carnitine supplementation. <i>FASEB Journal</i> , 2009, 23, 586-604.	0.5	101
108	A Branched-Chain Amino Acid-Related Metabolic Signature that Differentiates Obese and Lean Humans and Contributes to Insulin Resistance. <i>Cell Metabolism</i> , 2009, 9, 311-326.	16.2	2,597

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109	Carnitine Insufficiency Caused by Aging and Overnutrition Compromises Mitochondrial Performance and Metabolic Control. <i>Journal of Biological Chemistry</i> , 2009, 284, 22840-22852.	3.4	271
110	Mitochondrial Overload and Incomplete Fatty Acid Oxidation Contribute to Skeletal Muscle Insulin Resistance. <i>Cell Metabolism</i> , 2008, 7, 45-56.	16.2	1,618
111	Genetic Networks of Liver Metabolism Revealed by Integration of Metabolic and Transcriptional Profiling. <i>PLoS Genetics</i> , 2008, 4, e1000034.	3.5	188
112	A Pyruvate Cycling Pathway Involving Cytosolic NADP-dependent Isocitrate Dehydrogenase Regulates Glucose-stimulated Insulin Secretion. <i>Journal of Biological Chemistry</i> , 2006, 281, 30593-30602.	3.4	204
113	Compensatory Responses to Pyruvate Carboxylase Suppression in Islet $\beta$ -Cells. <i>Journal of Biological Chemistry</i> , 2006, 281, 22342-22351.	3.4	124