Vidya R Velagapudi

List of Publications by Year
in descending order

70	6,161	125106	100535
papers	citations	35 h-index	70 g-index

76	76	76	12894
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hypothalamic AMPK and fatty acid metabolism mediate thyroid regulation of energy balance. Nature Medicine, 2010, 16, 1001-1008.	15.2	581
2	The gut microbiota modulates host energy and lipid metabolism in mice. Journal of Lipid Research, 2010, 51, 1101-1112.	2.0	508
3	Effective treatment of mitochondrial myopathy by nicotinamide riboside, a vitamin <scp>B</scp>3. EMBO Molecular Medicine, 2014, 6, 721-731.	3.3	326
4	Differential Lipid Partitioning Between Adipocytes and Tissue Macrophages Modulates Macrophage Lipotoxicity and M2/M1 Polarization in Obese Mice. Diabetes, 2011, 60, 797-809.	0.3	297
5	mTORC1 Regulates Mitochondrial Integrated Stress Response and Mitochondrial Myopathy Progression. Cell Metabolism, 2017, 26, 419-428.e5.	7.2	291
6	Adipose Tissue Inflammation and Increased Ceramide Content Characterize Subjects With High Liver Fat Content Independent of Obesity. Diabetes, 2007, 56, 1960-1968.	0.3	279
7	Farnesoid X Receptor Deficiency Improves Glucose Homeostasis in Mouse Models of Obesity. Diabetes, 2011, 60, 1861-1871.	0.3	261
8	Mitochondrial DNA Replication Defects Disturb Cellular dNTP Pools and Remodel One-Carbon Metabolism. Cell Metabolism, 2016, 23, 635-648.	7.2	222
9	Association of Lipidome Remodeling in the Adipocyte Membrane with Acquired Obesity in Humans. PLoS Biology, 2011, 9, e1000623.	2.6	213
10	Host-Microbe Co-metabolism Dictates Cancer Drug Efficacy in C.Âelegans. Cell, 2017, 169, 442-456.e18.	13.5	198
11	Serum saturated fatty acids containing triacylglycerols are better markers of insulin resistance than total serum triacylglycerol concentrations. Diabetologia, 2009, 52, 684-690.	2.9	169
12	Hypothalamic AMPK-ER Stress-JNK1 Axis Mediates the Central Actions of Thyroid Hormones on Energy Balance. Cell Metabolism, 2017, 26, 212-229.e12.	7.2	167
13	Metabolomic Profiling of Extracellular Vesicles and Alternative Normalization Methods Reveal Enriched Metabolites and Strategies to Study Prostate Cancer-Related Changes. Theranostics, 2017, 7, 3824-3841.	4.6	167
14	Fibroblast Growth Factor 21 Drives Dynamics of Local and Systemic Stress Responses in Mitochondrial Myopathy with mtDNA Deletions. Cell Metabolism, 2019, 30, 1040-1054.e7.	7.2	166
15	Niacin Cures Systemic NAD+ Deficiency and Improves Muscle Performance in Adult-Onset Mitochondrial Myopathy. Cell Metabolism, 2020, 31, 1078-1090.e5.	7.2	154
16	The Pentose Phosphate Pathway Regulates the Circadian Clock. Cell Metabolism, 2016, 24, 462-473.	7.2	132
17	Vitamin B12â€“dependent taurine synthesis regulates growth and bone mass. Journal of Clinical Investigation, 2014, 124, 2988-3002.	3.9	124
18	Endogenous and xenobiotic metabolic stability of primary human hepatocytes in longâ€term 3D spheroid cultures revealed by a combination of targeted and untargeted metabolomics. FASEB Journal, 2017, 31, 2696-2708.	0.2	119

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19	Preanalytical Processing and Biobanking Procedures of Biological Samples for Metabolomics Research: A White Paper, Community Perspective (for â€œPrecision Medicine and Pharmacometabolomics) Tj ETQq1 1 0.784314 rgB	1.1	117
20	Epigenome-wide association study of serum cotinine in current smokers reveals novel genetically driven loci. Clinical Epigenetics, 2019, 11, 1.	1.8	116
21	Faecal and serum metabolomics in paediatric inflammatory bowel disease. Journal of Crohn's and Colitis, 2017, 11, jjw158.	0.6	104
22	Purine metabolism is dysregulated in patients with major depressive disorder. Psychoneuroendocrinology, 2016, 70, 25-32.	1.3	93
23	Obatoclax, saliphenylhalamide and gemcitabine inhibit Zika virus infection inÂvitro and differentially affect cellular signaling, transcription and metabolism. Antiviral Research, 2017, 139, 117-128.	1.9	88
24	CLUH regulates mitochondrial metabolism by controlling translation and decay of target mRNAs. Journal of Cell Biology, 2017, 216, 675-693.	2.3	73
25	Roux-en-Y Gastric Bypass Surgery Induces Early Plasma Metabolomic and Lipidomic Alterations in Humans Associated with Diabetes Remission. PLoS ONE, 2015, 10, e0126401.	1.1	66
26	Peroxisomal and Microsomal Lipid Pathways Associated with Resistance to Hepatic Steatosis and Reduced Pro-inflammatory State. Journal of Biological Chemistry, 2010, 285, 31011-31023.	1.6	63
27	Modified Atkins diet induces subacute selective raggedâ€redâ€fiber lysis in mitochondrial myopathyÂpatients. EMBO Molecular Medicine, 2016, 8, 1234-1247.	3.3	56
28	Regulation of kynurenine biosynthesis during influenza virus infection. FEBS Journal, 2017, 284, 222-236.	2.2	56
29	Peroxisome Proliferator-Activated Receptor Î³-Dependent Regulation of Lipolytic Nodes and Metabolic Flexibility. Molecular and Cellular Biology, 2012, 32, 1555-1565.	1.1	54
30	Metabolomes of mitochondrial diseases and inclusion body myositis patients: treatment targets and biomarkers. EMBO Molecular Medicine, 2018, 10, .	3.3	54
31	Global arginine bioavailability ratio is decreased in patients with major depressive disorder. Journal of Affective Disorders, 2018, 229, 145-151.	2.0	47
32	Broad AOX expression in a genetically tractable mouse model does not disturb normal physiology. DMM Disease Models and Mechanisms, 2017, 10, 163-171.	1.2	46
33	Adaptation and failure of pancreatic Î² cells in murine models with different degrees of metabolic syndrome. DMM Disease Models and Mechanisms, 2009, 2, 582-592.	1.2	43
34	GATA4 Is a Key Regulator of Steroidogenesis and Glycolysis in Mouse Leydig Cells. Endocrinology, 2015, 156, 1860-1872.	1.4	41
35	GATA4 Regulates Blood-Testis Barrier Function and Lactate Metabolism in Mouse Sertoli Cells. Endocrinology, 2016, 157, 2416-2431.	1.4	41
36	JNJ872 inhibits influenza A virus replication without altering cellular antiviral responses. Antiviral Research, 2016, 133, 23-31.	1.9	40

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37	Cross-Laboratory Standardization of Preclinical Lipidomics Using Differential Mobility Spectrometry and Multiple Reaction Monitoring. Analytical Chemistry, 2021, 93, 16369-16378.	3.2	40
38	Antiviral Properties of Chemical Inhibitors of Cellular Anti-Apoptotic Bcl-2 Proteins. Viruses, 2017, 9, 271.	1.5	39
39	Understanding the metabolic burden of recombinant antibody production in <scp>Saccharomyces cerevisiae</scp> using a quantitative metabolomics approach. Yeast, 2018, 35, 331-341.	0.8	36
40	Accelerated renal disease is associated with the development of metabolic syndrome in a glucolipotoxic mouse model. DMM Disease Models and Mechanisms, 2012, 5, 636-48.	1.2	35
41	Metabolic flux screening of Saccharomyces cerevisiae single knockout strains on glucose and galactose supports elucidation of gene function. Journal of Biotechnology, 2007, 132, 395-404.	1.9	31
42	Deletion of the metabolic transcriptional coactivator PGC1Î² induces cardiac arrhythmia. Cardiovascular Research, 2011, 92, 29-38.	1.8	30
43	Ketogenic diet attenuates hepatopathy in mouse model of respiratory chain complex III deficiency caused by a Bcs1l mutation. Scientific Reports, 2017, 7, 957.	1.6	27
44	Simultaneous measurement of folate cycle intermediates in different biological matrices using liquid chromatographyâ€“tandem mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2018, 1092, 168-178.	1.2	26
45	Exploring the lipoprotein composition using Bayesian regression on serum lipidomic profiles. Bioinformatics, 2007, 23, i519-i528.	1.8	22
46	Integrated targeted metabolomic and lipidomic analysis: A novel approach to classifying early cystic precursors to invasive pancreatic cancer. Scientific Reports, 2019, 9, 10208.	1.6	22
47	Simultaneous Measurement of Tricarboxylic Acid Cycle Intermediates in Different Biological Matrices Using Liquid Chromatographyâ€“Tandem Mass Spectrometry; Quantitation and Comparison of TCA Cycle Intermediates in Human Serum, Plasma, Kasumi-1 Cell and Murine Liver Tissue. Metabolites, 2020, 10, 103.	1.3	22
48	Lipocalin Prostaglandin D Synthase and PPARÎ³2 Coordinate to Regulate Carbohydrate and Lipid Metabolism In Vivo. PLoS ONE, 2012, 7, e39512.	1.1	19
49	Adipose tissue mitochondrial capacity associates with long-term weight loss success. International Journal of Obesity, 2018, 42, 817-825.	1.6	19
50	Validation and Automation of a High-Throughput Multitargeted Method for Semiquantification of Endogenous Metabolites from Different Biological Matrices Using Tandem Mass Spectrometry. Metabolites, 2018, 8, 44.	1.3	19
51	IMPDH2: a new gene associated with dominant juvenile-onset dystonia-tremor disorder. European Journal of Human Genetics, 2021, 29, 1833-1837.	1.4	17
52	Metabolic screening of Saccharomyces cerevisiae single knockout strains reveals unexpected mobilization of metabolic potential. Process Biochemistry, 2006, 41, 2170-2179.	1.8	16
53	Combined immunodeficiency and hypoglycemia associated with mutations in hypoxia upregulated 1. Journal of Allergy and Clinical Immunology, 2017, 139, 1391-1393.e11.	1.5	14
54	Plasma metabolites reveal distinct profiles associating with different metabolic risk factors in monozygotic twin pairs. International Journal of Obesity, 2019, 43, 487-502.	1.6	13

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55	Changes in the serum metabolite profile correlate with decreased brain gray matter volume in moderate-to-heavy drinking young adults. Alcohol, 2019, 75, 89-97.	0.8	13
56	Dynamic network topology changes in functional modules predict responses to oxidative stress in yeast. Molecular BioSystems, 2009, 5, 276.	2.9	12
57	Hydroxysteroid (17Î²) dehydrogenase 12 is essential for metabolic homeostasis in adult mice. American Journal of Physiology - Endocrinology and Metabolism, 2020, 319, E494-E508.	1.8	12
58	Effect of High-Carbohydrate Diet on Plasma Metabolome in Mice with Mitochondrial Respiratory Chain Complex III Deficiency. International Journal of Molecular Sciences, 2016, 17, 1824.	1.8	11
59	Cancer Alters the Metabolic Fingerprint of Extracellular Vesicles. Cancers, 2020, 12, 3292.	1.7	11
60	The Association Between Musculoskeletal Pain and Circulating Ornithine: A Population-Based Study. Pain Medicine, 2017, 18, pnw285.	0.9	10
61	A Systems Approach to Study Immuno- and Neuro-Modulatory Properties of Antiviral Agents. Viruses, 2018, 10, 423.	1.5	10
62	Salmonella Typhimurium impairs glycolysis-mediated acidification of phagosomes to evade macrophage defense. PLoS Pathogens, 2021, 17, e1009943.	2.1	10
63	Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry for metabolic flux analyses using isotope-labeled ethanol. Rapid Communications in Mass Spectrometry, 2007, 21, 336-342.	0.7	9
64	Disruption of the mouse Shmt2 gene confers embryonic anaemia via foetal liver-specific metabolomic disorders. Scientific Reports, 2019, 9, 16054.	1.6	8
65	Interactive effects of aging and aerobic capacity on energy metabolismâ€“related metabolites of serum, skeletal muscle, and white adipose tissue. GeroScience, 2021, 43, 2679-2691.	2.1	8
66	Activation of Tryptophan and Phenylalanine Catabolism in the Remission Phase of Allergic Contact Dermatitis: A Pilot Study. International Archives of Allergy and Immunology, 2016, 170, 262-268.	0.9	7
67	Targeted Metabolomics With Ultraperformance Liquid Chromatographyâ€“Mass Spectrometry (UPLC-MS) Highlights Metabolic Differences in Healthy and Atopic Staffordshire Bull Terriers Fed Two Different Diets, A Pilot Study. Frontiers in Veterinary Science, 2020, 7, 554296.	0.9	4
68	Repeated Transcranial Magnetic Stimulationâ€“Induced Motor Evoked Potentials Correlate With the Subject-Specific Serum Metabolic Profile of Creatine. Journal of Clinical Neurophysiology, 2019, 36, 229-235.	0.9	2
69	Anodal tDCS Over the Left Prefrontal Cortex Does Not Cause Clinically Significant Changes in Circulating Metabolites. Frontiers in Psychiatry, 2020, 11, 403.	1.3	2
70	Symptoms of Anxiety During Pregnancy and Metabolism: A Pilot Metabolomics Study. European Psychiatry, 2017, 41, S169-S169.	0.1	0