

# Peddinti V Gopalacharyulu

## List of Publications by Year in descending order

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39  
papers

3,452  
citations

257450

24  
h-index

315739

38  
g-index

41  
all docs

41  
docs citations

41  
times ranked

7818  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitofusin 2 (Mfn2) links mitochondrial and endoplasmic reticulum function with insulin signaling and is essential for normal glucose homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5523-5528.	7.1	544
2	The gut microbiota modulates host energy and lipid metabolism in mice. Journal of Lipid Research, 2010, 51, 1101-1112.	4.2	508
3	Metabolome in progression to Alzheimer's disease. Translational Psychiatry, 2011, 1, e57-e57.	4.8	238
4	Association of Lipidome Remodeling in the Adipocyte Membrane with Acquired Obesity in Humans. PLoS Biology, 2011, 9, e1000623.	5.6	213
5	Deficient Endoplasmic Reticulum-Mitochondrial Phosphatidylserine Transfer Causes Liver Disease. Cell, 2019, 177, 881-895.e17.	28.9	209
6	Algorithms and tools for the preprocessing of LC-MS metabolomics data. Chemometrics and Intelligent Laboratory Systems, 2011, 108, 23-32.	3.5	138
7	Prediction of non-alcoholic fatty-liver disease and liver fat content by serum molecular lipids. Diabetologia, 2013, 56, 2266-2274.	6.3	129
8	Prediction of overall survival for patients with metastatic castration-resistant prostate cancer: development of a prognostic model through a crowdsourced challenge with open clinical trial data. Lancet Oncology, The, 2017, 18, 132-142.	10.7	124
9	Drug Target Commons: A Community Effort to Build a Consensus Knowledge Base for Drug-Target Interactions. Cell Chemical Biology, 2018, 25, 224-229.e2.	5.2	124
10	Noninvasive Detection of Nonalcoholic Steatohepatitis Using Clinical Markers and Circulating Levels of Lipids and Metabolites. Clinical Gastroenterology and Hepatology, 2016, 14, 1463-1472.e6.	4.4	120
11	Early metabolic markers identify potential targets for the prevention of type 2 diabetes. Diabetologia, 2017, 60, 1740-1750.	6.3	96
12	Insulin Signaling Regulates Fatty Acid Catabolism at the Level of CoA Activation. PLoS Genetics, 2012, 8, e1002478.	3.5	93
13	MPEA metabolite pathway enrichment analysis. Bioinformatics, 2011, 27, 1878-1879.	4.1	85
14	Cord Serum Lipidome in Prediction of Islet Autoimmunity and Type 1 Diabetes. Diabetes, 2013, 62, 3268-3274.	0.6	81
15	Metabolic Regulation in Progression to Autoimmune Diabetes. PLoS Computational Biology, 2011, 7, e1002257.	3.2	74
16	Accumulated Metabolites of Hydroxybutyric Acid Serve as Diagnostic and Prognostic Biomarkers of Ovarian High-Grade Serous Carcinomas. Cancer Research, 2016, 76, 796-804.	0.9	74
17	Crowdsourced assessment of common genetic contribution to predicting anti-TNF treatment response in rheumatoid arthritis. Nature Communications, 2016, 7, 12460.	12.8	73
18	Characterization of microbial metabolism of Syrah grape products in an in vitro colon model using targeted and non-targeted analytical approaches. European Journal of Nutrition, 2013, 52, 833-846.	3.9	60

#	ARTICLE	IF	CITATIONS
19	Circulating Triacylglycerol Signatures in Nonalcoholic Fatty Liver Disease Associated With the I148M Variant in PNPLA3 and With Obesity. <i>Diabetes</i> , 2014, 63, 312-322.	0.6	58
20	1-Hour Post-OGTT Glucose Improves the Early Prediction of Type 2 Diabetes by Clinical and Metabolic Markers. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2019, 104, 1131-1140.	3.6	53
21	Dietary carbohydrate modification alters serum metabolic profiles in individuals with the metabolic syndrome. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2010, 20, 249-257.	2.6	50
22	Drug metabolome of the Simvastatin formed by human intestinal microbiota in vitro. <i>Molecular BioSystems</i> , 2011, 7, 437-446.	2.9	44
23	Enterovirus-induced gene expression profile is critical for human pancreatic islet destruction. <i>Diabetologia</i> , 2012, 55, 3273-3283.	6.3	43
24	Diacetyl control during brewery fermentation via adaptive laboratory engineering of the lager yeast <i>Saccharomyces pastorianus</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2018, 45, 1103-1112.	3.0	29
25	Data integration and visualization system for enabling conceptual biology. <i>Bioinformatics</i> , 2005, 21, i177-i185.	4.1	21
26	Detection of Molecular Paths Associated with Insulinitis and Type 1 Diabetes in Non-Obese Diabetic Mouse. <i>PLoS ONE</i> , 2009, 4, e7323.	2.5	19
27	A Community Challenge for Inferring Genetic Predictors of Gene Essentialities through Analysis of a Functional Screen of Cancer Cell Lines. <i>Cell Systems</i> , 2017, 5, 485-497.e3.	6.2	19
28	Validation and Automation of a High-Throughput Multitargeted Method for Semiquantification of Endogenous Metabolites from Different Biological Matrices Using Tandem Mass Spectrometry. <i>Metabolites</i> , 2018, 8, 44.	2.9	19
29	C-SPADE: a web-tool for interactive analysis and visualization of drug screening experiments through compound-specific bioactivity dendrograms. <i>Nucleic Acids Research</i> , 2017, 45, W495-W500.	14.5	18
30	Metabolite profiling of the carnivorous pitcher plants <i>Darlingtonia</i> and <i>Sarracenia</i> . <i>PLoS ONE</i> , 2017, 12, e0171078.	2.5	17
31	Production of Endotoxin-Free Microbial Biomass for Food Applications by Gas Fermentation of Gram-Positive $H_2$ -Oxidizing Bacteria. <i>ACS Food Science &amp; Technology</i> , 2021, 1, 470-479.	2.7	16
32	An integrative approach for biological data mining and visualisation. <i>International Journal of Data Mining and Bioinformatics</i> , 2008, 2, 54.	0.1	14
33	From drug response profiling to target addiction scoring in cancer cell models. <i>DMM Disease Models and Mechanisms</i> , 2015, 8, 1255-1264.	2.4	13
34	Dynamic network topology changes in functional modules predict responses to oxidative stress in yeast. <i>Molecular BioSystems</i> , 2009, 5, 276.	2.9	12
35	Seed-effect modeling improves the consistency of genome-wide loss-of-function screens and identifies synthetic lethal vulnerabilities in cancer cells. <i>Genome Medicine</i> , 2017, 9, 51.	8.2	12
36	Characterizing the Quality of Insight by Interactions: A Case Study. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2021, 27, 3410-3424.	4.4	7

#	ARTICLE	IF	CITATIONS
37	Allostatic hypermetabolic response in PGC1 $\hat{\pm}$ / $\hat{\pm}$ 2 heterozygote mouse despite mitochondrial defects. FASEB Journal, 2021, 35, e21752.	0.5	2
38	One-Hour Post-OGTT Glucose Improves the Early Prediction of Type 2 Diabetes beyond Metabolic Markers. Diabetes, 2018, 67, .	0.6	2
39	Heterogeneous Biological Network Visualization System: Case Study in Context of Medical Image Data. Advances in Experimental Medicine and Biology, 2012, 736, 95-118.	1.6	0