

# Ramon C Sun

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

1,539  
citations

394421

19  
h-index

330143

37  
g-index

70  
all docs

70  
docs citations

70  
times ranked

2387  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-dimensionality reduction clustering of complex carbohydrates to study lung cancer metabolic heterogeneity. <i>Advances in Cancer Research</i> , 2022, 154, 227-251.	5.0	0
2	Activation of Drp1 promotes fatty acids-induced metabolic reprogramming to potentiate Wnt signaling in colon cancer. <i>Cell Death and Differentiation</i> , 2022, 29, 1913-1927.	11.2	20
3	In situ spatial glycomic imaging of mouse and human Alzheimer's disease brains. <i>Alzheimer's and Dementia</i> , 2022, 18, 1721-1735.	0.8	25
4	Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Imaging of Glycogen In Situ. <i>Methods in Molecular Biology</i> , 2022, 2437, 215-228.	0.9	6
5	Mass Spectrometry Imaging Reveals Distinct Differences in Glycogen Accumulation in Lung Tumors from Appalachian Patients. <i>FASEB Journal</i> , 2022, 36, .	0.5	0
6	High-fat/high-carbohydrate diet increases glycogen accumulation in lung tissue <i>in vivo</i> . <i>FASEB Journal</i> , 2022, 36, .	0.5	1
7	Aberrant glycogen accumulation alters gene expression and promotes lung tumor progression <i>in vivo</i> . <i>FASEB Journal</i> , 2022, 36, .	0.5	0
8	Development of a Novel ELISA for Sensitive Quantitation of Glycogen and Polyglucosan Bodies. <i>FASEB Journal</i> , 2022, 36, .	0.5	0
9	Differential Extracellular Matrix Proteomic Signatures in Malignant and Benign Polyps from Appalachian Region Colon Cancer Patients. <i>FASEB Journal</i> , 2022, 36, .	0.5	0
10	A human prefrontal cortex tissue microarray to study Alzheimer's disease. <i>FASEB Journal</i> , 2022, 36, .	0.5	0
11	Longitudinal profiling of the Plasma Glycome from Normal and Alzheimer's Disease individuals. <i>FASEB Journal</i> , 2022, 36, .	0.5	0
12	Tissue-Specific Downregulation of Fatty Acid Synthase Suppresses Intestinal Adenoma Formation via Coordinated Reprogramming of Transcriptome and Metabolism in the Mouse Model of Apc-Driven Colorectal Cancer. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6510.	4.1	9
13	Regional N-glycan and lipid analysis from tissues using MALDI-mass spectrometry imaging. <i>STAR Protocols</i> , 2021, 2, 100304.	1.2	19
14	Enhancing lifespan of budding yeast by pharmacological lowering of amino acid pools. <i>Aging</i> , 2021, 13, 7846-7871.	3.1	10
15	Evaluation of Glutaminase Expression in Prostate Adenocarcinoma and Correlation with Clinicopathologic Parameters. <i>Cancers</i> , 2021, 13, 2157.	3.7	12
16	Astrocytic glycogen accumulation drives the pathophysiology of neurodegeneration in Lafora disease. <i>Brain</i> , 2021, 144, 2349-2360.	7.6	25
17	Protein hyperglycosylation is a metabolic feature of mouse and human brains with beta amyloid pathology. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
18	Brain glycogen serves as a critical glucosamine cache required for protein glycosylation. <i>FASEB Journal</i> , 2021, 35, .	0.5	1

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19	Purine synthesis as a target for radiation resistance in molecular glioblastoma. <i>Journal of the Neurological Sciences</i> , 2021, 425, 117439.	0.6	0
20	<i>In Situ</i> Analysis of N-Linked Glycans as Potential Biomarkers of Clinical Course in Human Prostate Cancer. <i>Molecular Cancer Research</i> , 2021, 19, 1727-1738.	3.4	18
21	Abstract 2819: Mass spectrometry imaging reveals heterogeneous glycogen metabolism in non small cell lung cancer. , 2021, , .		0
22	Brain glycogen serves as a critical glucosamine cache required for protein glycosylation. <i>Cell Metabolism</i> , 2021, 33, 1404-1417.e9.	16.2	47
23	Abstract 3046: In situ analysis of microenvironmental glycogen in Ewing's sarcoma patient samples by mass spectrometry imaging. , 2021, , .		0
24	Abstract 1992: Serine hydroxymethyltransferase-2 as regulator of oxidative stress and chemoradiation resistance in lung adenocarcinoma. , 2021, , .		0
25	APOÎ4 lowers energy expenditure in females and impairs glucose oxidation by increasing flux through aerobic glycolysis. <i>Molecular Neurodegeneration</i> , 2021, 16, 62.	10.8	34
26	Hippocampal disruptions of synaptic and astrocyte metabolism are primary events of early amyloid pathology in the 5xFAD mouse model of Alzheimer's disease. <i>Cell Death and Disease</i> , 2021, 12, 954.	6.3	41
27	Emerging roles of N-linked glycosylation in brain physiology and disorders. <i>Trends in Endocrinology and Metabolism</i> , 2021, 32, 980-993.	7.1	38
28	Lactate supports a metabolic-epigenetic link in macrophage polarization. <i>Science Advances</i> , 2021, 7, eabi8602.	10.3	70
29	Accurate and sensitive quantitation of glucose and glucose phosphates derived from storage carbohydrates by mass spectrometry. <i>Carbohydrate Polymers</i> , 2020, 230, 115651.	10.2	27
30	"Serine and One-Carbon Metabolism in Breast Cancer Metastasis" Letter. <i>Molecular Cancer Research</i> , 2020, 18, 1755-1755.	3.4	1
31	Oral Gavage Delivery of Stable Isotope Tracer for In Vivo Metabolomics. <i>Metabolites</i> , 2020, 10, 501.	2.9	15
32	Improved workflow for mass spectrometry-based metabolomics analysis of the heart. <i>Journal of Biological Chemistry</i> , 2020, 295, 2676-2686.	3.4	26
33	APOE alters glucose flux through central carbon pathways in astrocytes. <i>Neurobiology of Disease</i> , 2020, 136, 104742.	4.4	61
34	Loss of Rb1 Enhances Glycolytic Metabolism in Kras-Driven Lung Tumors In Vivo. <i>Cancers</i> , 2020, 12, 237.	3.7	12
35	Clear Cell Adenocarcinoma of the Urinary Bladder Is a Glycogen-Rich Tumor with Poorer Prognosis. <i>Journal of Clinical Medicine</i> , 2020, 9, 138.	2.4	12
36	Spatial profiling of gangliosides in mouse brain by mass spectrometry imaging. <i>Journal of Lipid Research</i> , 2020, 61, 1537.	4.2	10

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37	The E3 ligase malin plays a pivotal role in promoting nuclear glycogenolysis and histone acetylation. <i>Annals of Translational Medicine</i> , 2020, 8, 254-254.	1.7	3
38	Abstract PR01: Mitochondrial lactate metabolism in M2 macrophage polarization and ACL-dependent histone acetylation. , 2020, , .		0
39	Malin, an E3 Ubiquitin Ligase, Modulates glycogen metabolism in multiple cellular compartments. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	1
40	Lafora Disease: Differential Metabolic Disturbances in Neurons and Astrocytes. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0
41	Abstract PO-094: Mass spectrometry imaging of N-glycans identifies racial discrepancies in human prostate tumors. , 2020, , .		0
42	Abstract PO-085: Mass spectrometry imaging of N-glycans identifies racial discrepancies in human prostate tumors. , 2020, , .		0
43	Targeting Pathogenic Lafora Bodies in Lafora Disease Using an Antibody-Enzyme Fusion. <i>Cell Metabolism</i> , 2019, 30, 689-705.e6.	16.2	66
44	Nuclear Glycogenolysis Modulates Histone Acetylation in Human Non-Small Cell Lung Cancers. <i>Cell Metabolism</i> , 2019, 30, 903-916.e7.	16.2	72
45	Clinical Features, Survival and Prognostic Factors of Glycogen-Rich Clear Cell Carcinoma (GRCC) of the Breast in the U.S. Population. <i>Journal of Clinical Medicine</i> , 2019, 8, 246.	2.4	26
46	Compartmentalized glycogenolysis regulates lung cancer transcription. <i>FASEB Journal</i> , 2019, 33, 652.25.	0.5	1
47	Quantitative profiling of carbonyl metabolites directly in crude biological extracts using chemoselective tagging and nanoESI-FTMS. <i>Analyst</i> , The, 2018, 143, 311-322.	3.5	20
48	Mitochondrial Metabolism in Major Neurological Diseases. <i>Cells</i> , 2018, 7, 229.	4.1	41
49	Noninvasive liquid diet delivery of stable isotopes into mouse models for deep metabolic network tracing. <i>Nature Communications</i> , 2017, 8, 1646.	12.8	74
50	Abstract SY02-02: Exploring the lung cancer metabolome, in vivo and ex vivo, for individualized medicine. , 2017, , .		0
51	Abstract 2502: Liquid diet introduction of tracers into mice for stable isotope-resolved metabolomics (SIRM) investigations. , 2017, , .		0
52	Hypoxic repression of pyruvate dehydrogenase activity is necessary for metabolic reprogramming and growth of model tumours. <i>Scientific Reports</i> , 2016, 6, 31146.	3.3	36
53	Measuring the Impact of Microenvironmental Conditions on Mitochondrial Dehydrogenase Activity in Cultured Cells. <i>Advances in Experimental Medicine and Biology</i> , 2016, 899, 113-120.	1.6	2
54	The PI3K/Akt Pathway Regulates Oxygen Metabolism via Pyruvate Dehydrogenase (PDH)-E1 $\alpha$ Phosphorylation. <i>Molecular Cancer Therapeutics</i> , 2015, 14, 1928-1938.	4.1	54

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55	Hypoxic Regulation of Glutamine Metabolism through HIF1 and SIAH2 Supports Lipid Synthesis that Is Necessary for Tumor Growth. <i>Cell Metabolism</i> , 2014, 19, 285-292.	16.2	285
56	Targeting metabolism with arsenic trioxide and dichloroacetate in breast cancer cells. <i>Molecular Cancer</i> , 2011, 10, 142.	19.2	101
57	18. Reversal of the glycolytic phenotype by dichloroacetate inhibits metastatic breast cancer cell growth in vitro and in vivo. <i>Pathology</i> , 2010, 42, S87.	0.6	0
58	Reversal of the glycolytic phenotype with dichloroacetate in a mouse mammary adenocarcinoma model. <i>Pathology</i> , 2010, 42, S61-S62.	0.6	1
59	Reversal of the glycolytic phenotype by dichloroacetate inhibits metastatic breast cancer cell growth in vitro and in vivo. <i>Breast Cancer Research and Treatment</i> , 2010, 120, 253-260.	2.5	204
60	Hippocampal Disruptions of Synaptic and Astrocyte Metabolism are Primary Events of Early Amyloid Pathology in the 5xFAD Mouse Model of Alzheimer's Disease. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0