

# Sandra Galic

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

6,032  
citations

136950

32  
h-index

182427

51  
g-index

54  
all docs

54  
docs citations

54  
times ranked

10425  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adipose tissue as an endocrine organ. <i>Molecular and Cellular Endocrinology</i> , 2010, 316, 129-139.	3.2	1,345
2	Single phosphorylation sites in Acc1 and Acc2 regulate lipid homeostasis and the insulin-sensitizing effects of metformin. <i>Nature Medicine</i> , 2013, 19, 1649-1654.	30.7	674
3	Reactive Oxygen Species Enhance Insulin Sensitivity. <i>Cell Metabolism</i> , 2009, 10, 260-272.	16.2	509
4	Hematopoietic AMPK $\hat{1}^2$ reduces mouse adipose tissue macrophage inflammation and insulin resistance in obesity. <i>Journal of Clinical Investigation</i> , 2011, 121, 4903-4915.	8.2	291
5	Regulation of Insulin Signaling through Reversible Oxidation of the Protein-tyrosine Phosphatases TC45 and PTP1B. <i>Journal of Biological Chemistry</i> , 2004, 279, 37716-37725.	3.4	242
6	T cell protein tyrosine phosphatase attenuates T cell signaling to maintain tolerance in mice. <i>Journal of Clinical Investigation</i> , 2011, 121, 4758-4774.	8.2	198
7	Coordinated Regulation of Insulin Signaling by the Protein Tyrosine Phosphatases PTP1B and TCPTP. <i>Molecular and Cellular Biology</i> , 2005, 25, 819-829.	2.3	182
8	Regulation of Insulin Receptor Signaling by the Protein Tyrosine Phosphatase TCPTP. <i>Molecular and Cellular Biology</i> , 2003, 23, 2096-2108.	2.3	166
9	Elevated Hypothalamic TCPTP in Obesity Contributes to Cellular Leptin Resistance. <i>Cell Metabolism</i> , 2011, 14, 684-699.	16.2	162
10	AMPK $\hat{1}^2$ Deletion Reduces Appetite, Preventing Obesity and Hepatic Insulin Resistance. <i>Journal of Biological Chemistry</i> , 2010, 285, 115-122.	3.4	154
11	Whole Body Deletion of AMP-activated Protein Kinase $\hat{1}^2$ Reduces Muscle AMPK Activity and Exercise Capacity. <i>Journal of Biological Chemistry</i> , 2010, 285, 37198-37209.	3.4	145
12	Small Molecule Drug A-769662 and AMP Synergistically Activate Naive AMPK Independent of Upstream Kinase Signaling. <i>Chemistry and Biology</i> , 2014, 21, 619-627.	6.0	137
13	Ghrelin-AMPK Signaling Mediates the Neuroprotective Effects of Calorie Restriction in Parkinson's Disease. <i>Journal of Neuroscience</i> , 2016, 36, 3049-3063.	3.6	128
14	Deletion of Skeletal Muscle SOCS3 Prevents Insulin Resistance in Obesity. <i>Diabetes</i> , 2013, 62, 56-64.	0.6	117
15	AMPK phosphorylation of ACC2 is required for skeletal muscle fatty acid oxidation and insulin sensitivity in mice. <i>Diabetologia</i> , 2014, 57, 1693-1702.	6.3	105
16	AMP-activated protein kinase selectively inhibited by the type II inhibitor SBI-0206965. <i>Journal of Biological Chemistry</i> , 2018, 293, 8874-8885.	3.4	98
17	Phosphorylation of Acetyl-CoA Carboxylase by AMPK Reduces Renal Fibrosis and Is Essential for the Anti-Fibrotic Effect of Metformin. <i>Journal of the American Society of Nephrology: JASN</i> , 2018, 29, 2326-2336.	6.1	93
18	Liver-specific suppressor of cytokine signaling-3 deletion in mice enhances hepatic insulin sensitivity and lipogenesis resulting in fatty liver and obesity <sup>1</sup> . <i>Hepatology</i> , 2010, 52, 1632-1642.	7.3	89

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19	Salicylate activates AMPK and synergizes with metformin to reduce the survival of prostate and lung cancer cells <i>in vivo</i> through inhibition of <i>de novo</i> lipogenesis. <i>Biochemical Journal</i> , 2015, 469, 177-187.	3.7	79
20	T-Cell Protein Tyrosine Phosphatase Attenuates STAT3 and Insulin Signaling in the Liver to Regulate Gluconeogenesis. <i>Diabetes</i> , 2010, 59, 1906-1914.	0.6	78
21	Suppressor of cytokine signalling (SOCS) proteins as guardians of inflammatory responses critical for regulating insulin sensitivity. <i>Biochemical Journal</i> , 2014, 461, 177-188.	3.7	76
22	Long-chain fatty acyl-CoA esters regulate metabolism via allosteric control of AMPK $\alpha$ 1 isoforms. <i>Nature Metabolism</i> , 2020, 2, 873-881.	11.9	76
23	Macrophage Deletion of SOCS1 Increases Sensitivity to LPS and Palmitic Acid and Results in Systemic Inflammation and Hepatic Insulin Resistance. <i>Diabetes</i> , 2011, 60, 2023-2031.	0.6	72
24	The autophagy initiator ULK1 sensitizes AMPK to allosteric drugs. <i>Nature Communications</i> , 2017, 8, 571.	12.8	65
25	Exercise reverses age-related vulnerability of the retina to injury by preventing complement-mediated synapse elimination via a BDNF-dependent pathway. <i>Aging Cell</i> , 2016, 15, 1082-1091.	6.7	64
26	Significance of Short Chain Fatty Acid Transport by Members of the Monocarboxylate Transporter Family (MCT). <i>Neurochemical Research</i> , 2012, 37, 2562-2568.	3.3	63
27	AMPK signaling to acetyl-CoA carboxylase is required for fasting- and cold-induced appetite but not thermogenesis. <i>ELife</i> , 2018, 7, .	6.0	58
28	Inhibition of Adenosine Monophosphate-Activated Protein Kinase-3-Hydroxy-3-Methylglutaryl Coenzyme A Reductase Signaling Leads to Hypercholesterolemia and Promotes Hepatic Steatosis and Insulin Resistance. <i>Hepatology Communications</i> , 2019, 3, 84-98.	4.3	56
29	Inhibition of AMP-Activated Protein Kinase at the Allosteric Drug-Binding Site Promotes Islet Insulin Release. <i>Chemistry and Biology</i> , 2015, 22, 705-711.	6.0	50
30	The loop between helix 4 and helix 5 in the monocarboxylate transporter MCT1 is important for substrate selection and protein stability. <i>Biochemical Journal</i> , 2003, 376, 413-422.	3.7	46
31	Reduced Socs3 expression in adipose tissue protects female mice against obesity-induced insulin resistance. <i>Diabetologia</i> , 2012, 55, 3083-3093.	6.3	46
32	The myokine meteorin-like (metrnl) improves glucose tolerance in both skeletal muscle cells and mice by targeting AMPK $\alpha$ 2. <i>FEBS Journal</i> , 2020, 287, 2087-2104.	4.7	40
33	Molecular Mechanisms Underlying the Beneficial Effects of Exercise on Brain Function and Neurological Disorders. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4052.	4.1	35
34	T cell protein tyrosine phosphatase (TCPTP) deficiency in muscle does not alter insulin signalling and glucose homeostasis in mice. <i>Diabetologia</i> , 2012, 55, 468-478.	6.3	28
35	Novel mechanisms of Na <sup>+</sup> retention in obesity: phosphorylation of NKCC2 and regulation of SPAK/OSR1 by AMPK. <i>American Journal of Physiology - Renal Physiology</i> , 2014, 307, F96-F106.	2.7	28
36	AMPK $\alpha$ 1 reduces tumor progression and improves survival in p53 null mice. <i>Molecular Oncology</i> , 2017, 11, 1143-1155.	4.6	28

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37	CaMKK2 is inactivated by cAMP-PKA signaling and 14-3-3 adaptor proteins. <i>Journal of Biological Chemistry</i> , 2020, 295, 16239-16250.	3.4	24
38	Genetic loss of AMPK-glycogen binding destabilises AMPK and disrupts metabolism. <i>Molecular Metabolism</i> , 2020, 41, 101048.	6.5	22
39	JNK Activation of BIM Promotes Hepatic Oxidative Stress, Steatosis, and Insulin Resistance in Obesity. <i>Diabetes</i> , 2017, 66, 2973-2986.	0.6	21
40	ATP synthase inhibitory factor 1 (IF1), a novel myokine, regulates glucose metabolism by AMPK and Akt dual pathways. <i>FASEB Journal</i> , 2019, 33, 14825-14840.	0.5	20
41	Allosteric regulation of AMP-activated protein kinase by adenylate nucleotides and small-molecule drugs. <i>Biochemical Society Transactions</i> , 2019, 47, 733-741.	3.4	19
42	Loss of BIM increases mitochondrial oxygen consumption and lipid oxidation, reduces adiposity and improves insulin sensitivity in mice. <i>Cell Death and Differentiation</i> , 2018, 25, 217-225.	11.2	18
43	Skeletal muscle ACC2 S212 phosphorylation is not required for the control of fatty acid oxidation during exercise. <i>Physiological Reports</i> , 2015, 3, e12444.	1.7	16
44	Activation of AMPK reduces the co-transporter activity of NKCC1. <i>Molecular Membrane Biology</i> , 2014, 31, 95-102.	2.0	10
45	Regulation of Pancreatic $\beta$ -Cell Function by the NPY System. <i>Endocrinology</i> , 2021, 162, .	2.8	10
46	Neuropeptide Y1 receptor antagonism protects $\beta$ -cells and improves glycemic control in type 2 diabetes. <i>Molecular Metabolism</i> , 2022, 55, 101413.	6.5	10
47	Defective AMPK regulation of cholesterol metabolism accelerates atherosclerosis by promoting HSPC mobilization and myelopoiesis. <i>Molecular Metabolism</i> , 2022, 61, 101514.	6.5	10
48	Functional analysis of an R311C variant of $Ca^{2+}$ -calmodulin-dependent protein kinase kinase-2 (CaMKK2) found as a de novo mutation in a patient with bipolar disorder. <i>Bipolar Disorders</i> , 2020, 22, 841-848.	1.9	9
49	An AMPK $\beta$ -specific phospho-switch controls lysosomal targeting for activation. <i>Cell Reports</i> , 2022, 38, 110365.	6.4	8
50	Structure-function analysis of the AMPK activator SC4 and identification of a potent pan AMPK activator. <i>Biochemical Journal</i> , 2022, 479, 1181-1204.	3.7	6
51	Absence of the $\beta$ 1 subunit of AMP-activated protein kinase reduces myofibroblast infiltration of the kidneys in early diabetes. <i>International Journal of Experimental Pathology</i> , 2019, 100, 114-122.	1.3	2