

# Luiz F Barella

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

987  
citations

361413  
20  
h-index

501196  
28  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1275  
citing authors

#	ARTICLE	IF	CITATIONS
1	Intra-islet glucagon signaling is critical for maintaining glucose homeostasis. <i>JCI Insight</i> , 2019, 4, .	5.0	102
2	Novel metabolic role for BDNF in pancreatic $\beta$ -cell insulin secretion. <i>Nature Communications</i> , 2020, 11, 1950.	12.8	59
3	Maternal diet, bioactive molecules, and exercising as reprogramming tools of metabolic programming. <i>European Journal of Nutrition</i> , 2014, 53, 711-722.	3.9	55
4	Poor pubertal protein nutrition disturbs glucose-induced insulin secretion process in pancreatic islets and programs rats in adulthood to increase fat accumulation. <i>Journal of Endocrinology</i> , 2013, 216, 195-206.	2.6	46
5	Protein Restriction During the Last Third of Pregnancy Malprograms the Neuroendocrine Axes to Induce Metabolic Syndrome in Adult Male Rat Offspring. <i>Endocrinology</i> , 2016, 157, 1799-1812.	2.8	38
6	Early Exposure to a High-Fat Diet has more Drastic Consequences on Metabolism Compared with Exposure During Adulthood in Rats. <i>Hormone and Metabolic Research</i> , 2012, 44, 458-464.	1.5	35
7	$\beta$ Cell "intrinsic" $\beta$ -arrestin 1 signaling enhances sulfonylurea-induced insulin secretion. <i>Journal of Clinical Investigation</i> , 2019, 129, 3732-3737.	8.2	32
8	Insulin Oversecretion in MSG-Obese Rats is Related to Alterations in Cholinergic Muscarinic Receptor Subtypes in Pancreatic Islets. <i>Cellular Physiology and Biochemistry</i> , 2014, 33, 1075-1086.	1.6	30
9	Acephate exposure during a perinatal life program to type 2 diabetes. <i>Toxicology</i> , 2016, 372, 12-21.	4.2	30
10	HPA axis and vagus nervous function are involved in impaired insulin secretion of MSG-obese rats. <i>Journal of Endocrinology</i> , 2016, 230, 27-38.	2.6	29
11	Moderate Exercise Restores Pancreatic Beta-Cell Function and Autonomic Nervous System Activity in Obese Rats Induced by High-Fat Diet. <i>Cellular Physiology and Biochemistry</i> , 2013, 32, 310-321.	1.6	28
12	CK2 acts as a potent negative regulator of receptor-mediated insulin release in vitro and in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E6818-24.	7.1	27
13	Adipocyte Gi signaling is essential for maintaining whole-body glucose homeostasis and insulin sensitivity. <i>Nature Communications</i> , 2020, 11, 2995.	12.8	27
14	Low-protein diet in adult male rats has long-term effects on metabolism. <i>Journal of Endocrinology</i> , 2014, 221, 285-295.	2.6	26
15	Metabolic roles of G protein-coupled receptor signaling in obesity and type 2 diabetes. <i>FEBS Journal</i> , 2021, 288, 2622-2644.	4.7	25
16	Cross-fostering reduces obesity induced by early exposure to monosodium glutamate in male rats. <i>Endocrine</i> , 2017, 55, 101-112.	2.3	24
17	Short- and long-term effects of maternal perinatal undernutrition are lowered by cross-fostering during lactation in the male rat. <i>Journal of Developmental Origins of Health and Disease</i> , 2014, 5, 109-120.	1.4	23
18	Vagus nerve contributes to metabolic syndrome in high-fat diet-fed young and adult rats. <i>Experimental Physiology</i> , 2015, 100, 57-68.	2.0	22

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19	Low-protein diet in puberty impairs testosterone output and energy metabolism in male rats. <i>Journal of Endocrinology</i> , 2018, 237, 243-254.	2.6	22
20	Methylglyoxal treatment in lactating mothers leads to type 2 diabetes phenotype in male rat offspring at adulthood. <i>European Journal of Nutrition</i> , 2018, 57, 477-486.	3.9	20
21	Impaired muscarinic type 3 (M3) receptor/PKC and PKA pathways in islets from MSG-obese rats. <i>Molecular Biology Reports</i> , 2013, 40, 4521-4528.	2.3	19
22	Beneficial metabolic role of $\beta$ -arrestin-1 expressed by AgRP neurons. <i>Science Advances</i> , 2020, 6, eaaz1341.	10.3	17
23	Pancreatic islets and their roles in metabolic programming. <i>Nutrition</i> , 2014, 30, 373-379.	2.4	16
24	Impaired $\beta$ -cell function in the adult offspring of rats fed a protein-restricted diet during lactation is associated with changes in muscarinic acetylcholine receptor subtypes. <i>British Journal of Nutrition</i> , 2014, 111, 227-235.	2.3	15
25	$\beta$ -arrestin-1 suppresses myogenic reprogramming of brown fat to maintain euglycemia. <i>Science Advances</i> , 2020, 6, eaba1733.	10.3	15
26	Clenbuterol exerts antidiabetic activity through metabolic reprogramming of skeletal muscle cells. <i>Nature Communications</i> , 2022, 13, 22.	12.8	15
27	$\beta$ -Arrestins as Important Regulators of Glucose and Energy Homeostasis. <i>Annual Review of Physiology</i> , 2022, 84, 17-40.	13.1	14
28	Protein-energy malnutrition at mid-adulthood does not imprint long-term metabolic consequences in male rats. <i>European Journal of Nutrition</i> , 2016, 55, 1423-1433.	3.9	13
29	$\beta$ -Arrestin-1 is required for adaptive $\beta$ -cell mass expansion during obesity. <i>Nature Communications</i> , 2021, 12, 3385.	12.8	13
30	Acute Exposure to a Precursor of Advanced Glycation End Products Induces a Dual Effect on the Rat Pancreatic Islet Function. <i>International Journal of Endocrinology</i> , 2014, 2014, 1-6.	1.5	12
31	Protective Effect of Metformin Against Walker 256 Tumor Growth is Not Dependent on Metabolism Improvement. <i>Cellular Physiology and Biochemistry</i> , 2014, 34, 1920-1932.	1.6	12
32	Low-intensity and moderate exercise training improves autonomic nervous system activity imbalanced by postnatal early overfeeding in rats. <i>Journal of the International Society of Sports Nutrition</i> , 2014, 11, 25.	3.9	12
33	Swim training of monosodium l-glutamate-obese mice improves the impaired insulin receptor tyrosine phosphorylation in pancreatic islets. <i>Endocrine</i> , 2013, 43, 571-578.	2.3	11
34	Short-term moderate exercise provides long-lasting protective effects against metabolic dysfunction in rats fed a high-fat diet. <i>European Journal of Nutrition</i> , 2015, 54, 1353-1362.	3.9	11
35	Gq signaling in $\beta$ cells is critical for maintaining euglycemia. <i>JCI Insight</i> , 2021, 6, .	5.0	11
36	Maternal Diet Supplementation with n-6/n-3 Essential Fatty Acids in a 1.2:1.0 Ratio Attenuates Metabolic Dysfunction in MSG-Induced Obese Mice. <i>International Journal of Endocrinology</i> , 2016, 2016, 1-10.	1.5	10

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37	Chronic Glibenclamide Treatment Attenuates Walker-256 Tumour Growth in Prediabetic Obese Rats. Cellular Physiology and Biochemistry, 2017, 42, 81-90.	1.6	9
38	Sympathetic innervation is essential for metabolic homeostasis and pancreatic beta cell function in adult rats. Molecular and Cellular Endocrinology, 2018, 462, 119-126.	3.2	9
39	An increase in glucose concentration in the lateral ventricles of the brain induces changes in autonomic nervous system activity. Neurological Research, 2013, 35, 15-21.	1.3	8
40	Key Metabolic Functions of $\beta$ -Arrestins: Studies with Novel Mouse Models. Trends in Endocrinology and Metabolism, 2021, 32, 118-129.	7.1	7
41	Metformin Improves Autonomic Nervous System Imbalance and Metabolic Dysfunction in Monosodium L-Glutamate-Treated Rats. Frontiers in Endocrinology, 2021, 12, 660793.	3.5	6
42	Maternal Protein Malnutrition Does Not Impair Insulin Secretion from Pancreatic Islets of Offspring after Transplantation into Diabetic Rats. PLoS ONE, 2012, 7, e30685.	2.5	6
43	In Vivo metabolic effects after acute activation of skeletal muscle Gs signaling. Molecular Metabolism, 2022, 55, 101415.	6.5	5
44	Early treatment with metformin induces resistance against tumor growth in adult rats. Cancer Biology and Therapy, 2015, 16, 958-964.	3.4	4
45	Glibenclamide treatment blocks metabolic dysfunctions and improves vagal activity in monosodium glutamate-obese male rats. Endocrine, 2017, 56, 346-356.	2.3	4
46	Chronic leucine supplementation does not prevent the obesity and metabolic abnormalities induced by monosodium glutamate. Clinical Nutrition Experimental, 2020, 29, 62-75.	2.0	4
47	Cholinergic-pathway-weakness-associated pancreatic islet dysfunction: a low-protein-diet imprint effect on weaned rat offspring. Journal of Developmental Origins of Health and Disease, 2020, 11, 484-491.	1.4	4
48	Adenosine A1 receptor is dispensable for hepatocyte glucose metabolism and insulin sensitivity. Biochemical Pharmacology, 2021, 192, 114739.	4.4	3
49	Small Molecule-mediated Insulin Hypersecretion Induces Transient ER Stress Response and Loss of Beta Cell Function. Endocrinology, 2022, 163, .	2.8	2
50	Mechanisms of Programming: Pancreatic Islets and Fetal Programming. , 2017, , 517-528.		0
51	2129-P: Glucagon Secretion from Pancreatic Islets Is Regulated by Beta-Arrestin-1. Diabetes, 2020, 69, .	0.6	0
52	1694-P: Beta-Arrestin 1 Suppresses Myogenic Reprogramming of Brown Fat to Maintain Euglycemia. Diabetes, 2020, 69, 1694-P.	0.6	0
53	$\beta$ -Arrestins as regulators of key metabolic processes. , 2022, , 69-85.		0
54	Editorial: Endocrine Disruption in Light of Dohad: The Challenges of Contaminants of Emerging Concern in Food and Water. Frontiers in Endocrinology, 2022, 13, 898736.	3.5	0