

Claude Knauf

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68

papers

11,304

citations

33

h-index

72

g-index

72

ext. papers

13,041

ext. citations

9.2

avg, IF

5.83

L-index

#	Paper	IF	Citations
68	Metabolic endotoxemia initiates obesity and insulin resistance. <i>Diabetes</i> , 2007 , 56, 1761-72	0.9	3888
67	Changes in gut microbiota control metabolic endotoxemia-induced inflammation in high-fat diet-induced obesity and diabetes in mice. <i>Diabetes</i> , 2008 , 57, 1470-81	0.9	3072
66	Apelin stimulates glucose utilization in normal and obese insulin-resistant mice. <i>Cell Metabolism</i> , 2008 , 8, 437-45	24.6	350
65	Targeted deletion of AIF decreases mitochondrial oxidative phosphorylation and protects from obesity and diabetes. <i>Cell</i> , 2007 , 131, 476-91	56.2	332
64	Improvement of glucose tolerance and hepatic insulin sensitivity by oligofructose requires a functional glucagon-like peptide 1 receptor. <i>Diabetes</i> , 2006 , 55, 1484-90	0.9	314
63	Drosophila genome-wide obesity screen reveals hedgehog as a determinant of brown versus white adipose cell fate. <i>Cell</i> , 2010 , 140, 148-60	56.2	283
62	Brain glucagon-like peptide-1 increases insulin secretion and muscle insulin resistance to favor hepatic glycogen storage. <i>Journal of Clinical Investigation</i> , 2005 , 115, 3554-63	15.9	230
61	Altered gut microbiota and endocannabinoid system tone in obese and diabetic leptin-resistant mice: impact on apelin regulation in adipose tissue. <i>Frontiers in Microbiology</i> , 2011 , 2, 149	5.7	220
60	Apelin, diabetes, and obesity. <i>Endocrine</i> , 2011 , 40, 1-9	4	196
59	Hedgehog partial agonism drives Warburg-like metabolism in muscle and brown fat. <i>Cell</i> , 2012 , 151, 414-26	56.2	191
58	How gut microbes talk to organs: The role of endocrine and nervous routes. <i>Molecular Metabolism</i> , 2016 , 5, 743-52	8.8	159
57	Cannabinoid CB2 receptor potentiates obesity-associated inflammation, insulin resistance and hepatic steatosis. <i>PLoS ONE</i> , 2009 , 4, e5844	3.7	158
56	Apelin, a promising target for type 2 diabetes treatment?. <i>Trends in Endocrinology and Metabolism</i> , 2012 , 23, 234-41	8.8	108
55	Role of central nervous system glucagon-like Peptide-1 receptors in enteric glucose sensing. <i>Diabetes</i> , 2008 , 57, 2603-12	0.9	106
54	Gut Microbes and Health: A Focus on the Mechanisms Linking Microbes, Obesity, and Related Disorders. <i>Obesity</i> , 2018 , 26, 792-800	8	94
53	p53-PGC-1 β pathway mediates oxidative mitochondrial damage and cardiomyocyte necrosis induced by monoamine oxidase-A upregulation: role in chronic left ventricular dysfunction in mice. <i>Antioxidants and Redox Signaling</i> , 2013 , 18, 5-18	8.4	91
52	Relation between colonic proglucagon expression and metabolic response to oligofructose in high fat diet-fed mice. <i>Life Sciences</i> , 2006 , 79, 1007-13	6.8	88

51	Brain glucagon-like peptide 1 signaling controls the onset of high-fat diet-induced insulin resistance and reduces energy expenditure. <i>Endocrinology</i> , 2008 , 149, 4768-77	4.8	86
50	The Gut Microbiome Influences Host Endocrine Functions. <i>Endocrine Reviews</i> , 2019 , 40, 1271-1284	27.2	85
49	GLUT2 and the incretin receptors are involved in glucose-induced incretin secretion. <i>Molecular and Cellular Endocrinology</i> , 2007 , 276, 18-23	4.4	80
48	Ventromedial hypothalamic nitric oxide production is necessary for hypoglycemia detection and counterregulation. <i>Diabetes</i> , 2010 , 59, 519-28	0.9	71
47	Peroxisome proliferator-activated receptor-alpha-null mice have increased white adipose tissue glucose utilization, GLUT4, and fat mass: Role in liver and brain. <i>Endocrinology</i> , 2006 , 147, 4067-78	4.8	68
46	Intracerebroventricular infusion of glucose, insulin, and the adenosine monophosphate-activated kinase activator, 5-aminoimidazole-4-carboxamide-1-beta-D-ribofuranoside, controls muscle glycogen synthesis. <i>Endocrinology</i> , 2004 , 145, 4025-33	4.8	66
45	Apelin targets gut contraction to control glucose metabolism via the brain. <i>Gut</i> , 2017 , 66, 258-269	19.2	58
44	Identification of an analgesic lipopeptide produced by the probiotic <i>Escherichia coli</i> strain Nissle 1917. <i>Nature Communications</i> , 2017 , 8, 1314	17.4	55
43	Central apelin controls glucose homeostasis via a nitric oxide-dependent pathway in mice. <i>Antioxidants and Redox Signaling</i> , 2011 , 15, 1477-96	8.4	52
42	Apelin and the proopiomelanocortin system: a new regulatory pathway of hypothalamic ESH release. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011 , 301, E955-66	6	50
41	Impact of hypothalamic reactive oxygen species in the regulation of energy metabolism and food intake. <i>Frontiers in Neuroscience</i> , 2015 , 9, 56	5.1	46
40	Evidence for a spontaneous nitric oxide release from the rat median eminence: influence on gonadotropin-releasing hormone release. <i>Endocrinology</i> , 2001 , 142, 2343-50	4.8	45
39	Deletion of <i>Lkb1</i> in pro-opiomelanocortin neurons impairs peripheral glucose homeostasis in mice. <i>Diabetes</i> , 2011 , 60, 735-45	0.9	41
38	Central insulin regulates heart rate and arterial blood flow: an endothelial nitric oxide synthase-dependent mechanism altered during diabetes. <i>Diabetes</i> , 2007 , 56, 2872-7	0.9	40
37	Glucagon-like peptide-1 and energy homeostasis. <i>Journal of Nutrition</i> , 2007 , 137, 2534S-2538S	4.1	40
36	Jejunum inflammation in obese and diabetic mice impairs enteric glucose detection and modifies nitric oxide release in the hypothalamus. <i>Antioxidants and Redox Signaling</i> , 2011 , 14, 415-23	8.4	34
35	Galanin enhances systemic glucose metabolism through enteric Nitric Oxide Synthase-expressed neurons. <i>Molecular Metabolism</i> , 2018 , 10, 100-108	8.8	33
34	Transfer of dysbiotic gut microbiota has beneficial effects on host liver metabolism. <i>Molecular Systems Biology</i> , 2017 , 13, 921	12.2	32

33	Hypothalamic apelin/reactive oxygen species signaling controls hepatic glucose metabolism in the onset of diabetes. <i>Antioxidants and Redox Signaling</i> , 2014 , 20, 557-73	8.4	32
32	Hepatocyte Nuclear Factor-1 Controls Mitochondrial Respiration in Renal Tubular Cells. <i>Journal of the American Society of Nephrology: JASN</i> , 2017 , 28, 3205-3217	12.7	28
31	Apelin regulates FoxO3 translocation to mediate cardioprotective responses to myocardial injury and obesity. <i>Scientific Reports</i> , 2015 , 5, 16104	4.9	27
30	Gut microbiome, endocrine control of gut barrier function and metabolic diseases. <i>Journal of Endocrinology</i> , 2021 , 248, R67-R82	4.7	27
29	Glucosensing in the gastrointestinal tract: Impact on glucose metabolism. <i>American Journal of Physiology - Renal Physiology</i> , 2016 , 310, G645-58	5.1	26
28	Effects of Bisphenol S on hypothalamic neuropeptides regulating feeding behavior and apelin/APJ system in mice. <i>Ecotoxicology and Environmental Safety</i> , 2018 , 161, 459-466	7	24
27	Apelin stimulates both cholecystokinin and glucagon-like peptide 1 secretions in vitro and in vivo in rodents. <i>Peptides</i> , 2013 , 48, 134-6	3.8	24
26	Bacteria-derived long chain fatty acid exhibits anti-inflammatory properties in colitis. <i>Gut</i> , 2021 , 70, 1088-1097	4.9	24
25	Apelin Controls Fetal and Neonatal Glucose Homeostasis and Is Altered by Maternal Undernutrition. <i>Diabetes</i> , 2016 , 65, 554-60	0.9	23
24	Inflammation and Gut-Brain Axis During Type 2 Diabetes: Focus on the Crosstalk Between Intestinal Immune Cells and Enteric Nervous System. <i>Frontiers in Neuroscience</i> , 2018 , 12, 725	5.1	23
23	Impact of Intestinal Peptides on the Enteric Nervous System: Novel Approaches to Control Glucose Metabolism and Food Intake. <i>Frontiers in Endocrinology</i> , 2018 , 9, 328	5.7	20
22	Targeting the Enteric Nervous System to Treat Metabolic Disorders? "Enterosynes" as Therapeutic Gut Factors. <i>Neuroendocrinology</i> , 2020 , 110, 139-146	5.6	19
21	Elabela and Apelin actions in healthy and pathological pregnancies. <i>Cytokine and Growth Factor Reviews</i> , 2019 , 46, 45-53	17.9	18
20	The apelinergic system: sexual dimorphism and tissue-specific modulations by obesity and insulin resistance in female mice. <i>Peptides</i> , 2013 , 46, 94-101	3.8	18
19	Evidence for a Spontaneous Nitric Oxide Release from the Rat Median Eminence: Influence on Gonadotropin-Releasing Hormone Release		18
18	Central chronic apelin infusion decreases energy expenditure and thermogenesis in mice. <i>Scientific Reports</i> , 2016 , 6, 31849	4.9	13
17	Bisphenol S exposure affects gene expression related to intestinal glucose absorption and glucose metabolism in mice. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 3636-3642	5.1	12
16	Central Effects of Beta-Blockers May Be Due to Nitric Oxide and Hydrogen Peroxide Release Independently of Their Ability to Cross the Blood-Brain Barrier. <i>Frontiers in Neuroscience</i> , 2019 , 13, 33	5.1	11

15	Identification of new enterosynes using prebiotics: roles of bioactive lipids and mu-opioid receptor signalling in humans and mice. <i>Gut</i> , 2021 , 70, 1078-1087	19.2	11
14	Mitochondrial Dynamin-Related Protein 1 (DRP1) translocation in response to cerebral glucose is impaired in a rat model of early alteration in hypothalamic glucose sensing. <i>Molecular Metabolism</i> , 2019 , 20, 166-177	8.8	9
13	A newly identified protein from <i>Akkermansia muciniphila</i> stimulates GLP-1 secretion. <i>Cell Metabolism</i> , 2021 , 33, 1073-1075	24.6	8
12	Maternal hypertension induces tissue-specific modulations of the apelinergic system in the fetoplacental unit in rat. <i>Peptides</i> , 2012 , 35, 136-8	3.8	6
11	Interactions between the microbiota and enteric nervous system during gut-brain disorders. <i>Neuropharmacology</i> , 2021 , 197, 108721	5.5	6
10	Pharmacological inhibition of the F-ATPase/P2Y pathway suppresses the effect of apolipoprotein A1 on endothelial nitric oxide synthesis and vasorelaxation. <i>Acta Physiologica</i> , 2019 , 226, e13268	5.6	5
9	Reactive Oxygen Species / Reactive Nitrogen Species as Messengers in the Gut: Impact on Physiology and Metabolic Disorders. <i>Antioxidants and Redox Signaling</i> , 2021 ,	8.4	2
8	High Hydrostatic Pressure Processing of Human Milk Increases Apelin and GLP-1 Contents to Modulate Gut Contraction and Glucose Metabolism in Mice Compared to Holder Pasteurization.. <i>Nutrients</i> , 2022 , 14,	6.7	1
7	Glucose Stimulates Gut Motility in Fasted and Fed Conditions: Potential Involvement of a Nitric Oxide Pathway. <i>Nutrients</i> , 2022 , 14, 2176	6.7	1
6	Axe intestin-cerveau et contrôle du métabolisme glucidique. <i>Cahiers De Nutrition Et De Dietetique</i> , 2018 , 53, 53-61	0.2	
5	Apelin Metabolic Functions 2013 , 201-211		
4	Prebiotics and Modulation of Gastrointestinal Peptides 2008 , 247-262		
3	Endothelin-1 Exhibiting Pro-Nociceptive and Pro-Peristaltic Activities Is Increased in Peritoneal Carcinomatosis.. <i>Frontiers in Pain Research</i> , 2021 , 2, 613187	1.4	
2	5/6 nephrectomy affects enteric glial cells and promotes impaired antioxidant defense in the colonic neuromuscular layer.. <i>Life Sciences</i> , 2022 , 298, 120494	6.8	
1	In Vivo Assessment of Antioxidant Potential of Human Milk Treated by Holder Pasteurization or High Hydrostatic Pressure Processing: A Preliminary Study on Intestinal and Hepatic Markers in Adult Mice. <i>Antioxidants</i> , 2022 , 11, 1091	7.1	