

# Claude Knauf

## List of Publications by Year in descending order

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Version: 2024-02-01

69  
papers

14,524  
citations

87888

38  
h-index

98798

67  
g-index

72  
all docs

72  
docs citations

72  
times ranked

18733  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metabolic Endotoxemia Initiates Obesity and Insulin Resistance. <i>Diabetes</i> , 2007, 56, 1761-1772.	0.6	4,964
2	Changes in Gut Microbiota Control Metabolic Endotoxemia-Induced Inflammation in High-Fat Diet-Induced Obesity and Diabetes in Mice. <i>Diabetes</i> , 2008, 57, 1470-1481.	0.6	3,897
3	Apelin Stimulates Glucose Utilization in Normal and Obese Insulin-Resistant Mice. <i>Cell Metabolism</i> , 2008, 8, 437-445.	16.2	417
4	Targeted Deletion of AIF Decreases Mitochondrial Oxidative Phosphorylation and Protects from Obesity and Diabetes. <i>Cell</i> , 2007, 131, 476-491.	28.9	381
5	Improvement of Glucose Tolerance and Hepatic Insulin Sensitivity by Oligofructose Requires a Functional Glucagon-Like Peptide 1 Receptor. <i>Diabetes</i> , 2006, 55, 1484-1490.	0.6	365
6	Drosophila Genome-wide Obesity Screen Reveals Hedgehog as a Determinant of Brown versus White Adipose Cell Fate. <i>Cell</i> , 2010, 140, 148-160.	28.9	336
7	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.	3.5	267
8	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, 3554-3563.	8.2	263
9	Apelin, diabetes, and obesity. <i>Endocrine</i> , 2011, 40, 1-9.	2.3	240
10	Hedgehog Partial Agonism Drives Warburg-like Metabolism in Muscle and Brown Fat. <i>Cell</i> , 2012, 151, 414-426.	28.9	237
11	How gut microbes talk to organs: The role of endocrine and nervous routes. <i>Molecular Metabolism</i> , 2016, 5, 743-752.	6.5	237
12	Cannabinoid CB2 Receptor Potentiates Obesity-Associated Inflammation, Insulin Resistance and Hepatic Steatosis. <i>PLoS ONE</i> , 2009, 4, e5844.	2.5	189
13	The Gut Microbiome Influences Host Endocrine Functions. <i>Endocrine Reviews</i> , 2019, 40, 1271-1284.	20.1	179
14	Gut Microbes and Health: A Focus on the Mechanisms Linking Microbes, Obesity, and Related Disorders. <i>Obesity</i> , 2018, 26, 792-800.	3.0	141
15	Apelin, a promising target for type 2 diabetes treatment?. <i>Trends in Endocrinology and Metabolism</i> , 2012, 23, 234-241.	7.1	132
16	p53-PGC-1 $\beta$ 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.	5.4	117
17	Role of Central Nervous System Glucagon-Like Peptide-1 Receptors in Enteric Glucose Sensing. <i>Diabetes</i> , 2008, 57, 2603-2612.	0.6	116
18	Bacteria-derived long chain fatty acid exhibits anti-inflammatory properties in colitis. <i>Gut</i> , 2021, 70, 1088-1097.	12.1	105

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19	Relation between colonic proglucagon expression and metabolic response to oligofructose in high fat diet-fed mice. <i>Life Sciences</i> , 2006, 79, 1007-1013.	4.3	99
20	Ventromedial Hypothalamic Nitric Oxide Production Is Necessary for Hypoglycemia Detection and Counterregulation. <i>Diabetes</i> , 2010, 59, 519-528.	0.6	95
21	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, 4768-4777.	2.8	89
22	GLUT2 and the incretin receptors are involved in glucose-induced incretin secretion. <i>Molecular and Cellular Endocrinology</i> , 2007, 276, 18-23.	3.2	86
23	Identification of an analgesic lipopeptide produced by the probiotic <i>Escherichia coli</i> strain Nissle 1917. <i>Nature Communications</i> , 2017, 8, 1314.	12.8	86
24	Gut microbiome, endocrine control of gut barrier function and metabolic diseases. <i>Journal of Endocrinology</i> , 2021, 248, R67-R82.	2.6	85
25	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, 4025-4033.	2.8	75
26	Peroxisome Proliferator-Activated Receptor- $\delta$ -Null Mice Have Increased White Adipose Tissue Glucose Utilization, GLUT4, and Fat Mass: Role in Liver and Brain. <i>Endocrinology</i> , 2006, 147, 4067-4078.	2.8	73
27	Apelin targets gut contraction to control glucose metabolism via the brain. <i>Gut</i> , 2017, 66, 258-269.	12.1	73
28	Impact of hypothalamic reactive oxygen species in the regulation of energy metabolism and food intake. <i>Frontiers in Neuroscience</i> , 2015, 9, 56.	2.8	69
29	Central Apelin Controls Glucose Homeostasis via a Nitric Oxide-Dependent Pathway in Mice. <i>Antioxidants and Redox Signaling</i> , 2011, 15, 1477-1496.	5.4	66
30	Apelin and the proopiomelanocortin system: a new regulatory pathway of hypothalamic $\delta$ -MSH release. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011, 301, E955-E966.	3.5	63
31	Deletion of <i>Lkb1</i> in Pro-Opiomelanocortin Neurons Impairs Peripheral Glucose Homeostasis in Mice. <i>Diabetes</i> , 2011, 60, 735-745.	0.6	48
32	Evidence for a Spontaneous Nitric Oxide Release from the Rat Median Eminence: Influence on Gonadotropin-Releasing Hormone Release*. <i>Endocrinology</i> , 2001, 142, 2343-2350.	2.8	47
33	Glucagon-Like Peptide-1 and Energy Homeostasis. <i>Journal of Nutrition</i> , 2007, 137, 2534S-2538S.	2.9	47
34	Galanin enhances systemic glucose metabolism through enteric Nitric Oxide Synthase-expressed neurons. <i>Molecular Metabolism</i> , 2018, 10, 100-108.	6.5	46
35	Central Insulin Regulates Heart Rate and Arterial Blood Flow. <i>Diabetes</i> , 2007, 56, 2872-2877.	0.6	44
36	Hypothalamic Apelin/Reactive Oxygen Species Signaling Controls Hepatic Glucose Metabolism in the Onset of Diabetes. <i>Antioxidants and Redox Signaling</i> , 2014, 20, 557-573.	5.4	44

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37	Transfer of dysbiotic gut microbiota has beneficial effects on host liver metabolism. <i>Molecular Systems Biology</i> , 2017, 13, 921.	7.2	43
38	Hepatocyte Nuclear Factor-1 $\beta$ Controls Mitochondrial Respiration in Renal Tubular Cells. <i>Journal of the American Society of Nephrology: JASN</i> , 2017, 28, 3205-3217.	6.1	43
39	Glucosensing in the gastrointestinal tract: Impact on glucose metabolism. <i>American Journal of Physiology - Renal Physiology</i> , 2016, 310, G645-G658.	3.4	40
40	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, 415-423.	5.4	39
41	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.	2.8	39
42	A newly identified protein from <i>Akkermansia muciniphila</i> stimulates GLP-1 secretion. <i>Cell Metabolism</i> , 2021, 33, 1073-1075.	16.2	39
43	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.	6.0	37
44	Elabela and Apelin actions in healthy and pathological pregnancies. <i>Cytokine and Growth Factor Reviews</i> , 2019, 46, 45-53.	7.2	37
45	Apelin regulates FoxO3 translocation to mediate cardioprotective responses to myocardial injury and obesity. <i>Scientific Reports</i> , 2015, 5, 16104.	3.3	36
46	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.	3.5	35
47	Apelin Controls Fetal and Neonatal Glucose Homeostasis and Is Altered by Maternal Undernutrition. <i>Diabetes</i> , 2016, 65, 554-560.	0.6	33
48	Targeting the Enteric Nervous System to Treat Metabolic Disorders? "Enterosynes" as Therapeutic Gut Factors. <i>Neuroendocrinology</i> , 2020, 110, 139-146.	2.5	30
49	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.	12.1	28
50	Apelin stimulates both cholecystokinin and glucagon-like peptide 1 secretions in vitro and in vivo in rodents. <i>Peptides</i> , 2013, 48, 134-136.	2.4	27
51	Interactions between the microbiota and enteric nervous system during gut-brain disorders. <i>Neuropharmacology</i> , 2021, 197, 108721.	4.1	27
52	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.	2.8	24
53	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.	5.3	22
54	The apelinergic system: Sexual dimorphism and tissue-specific modulations by obesity and insulin resistance in female mice. <i>Peptides</i> , 2013, 46, 94-101.	2.4	21

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55	Evidence for a Spontaneous Nitric Oxide Release from the Rat Median Eminence: Influence on Gonadotropin-Releasing Hormone Release. <i>Endocrinology</i> , 2001, 142, 2343-2350.	2.8	20
56	Reactive Oxygen Species/Reactive Nitrogen Species as Messengers in the Gut: Impact on Physiology and Metabolic Disorders. <i>Antioxidants and Redox Signaling</i> , 2022, 37, 394-415.	5.4	18
57	Central chronic apelin infusion decreases energy expenditure and thermogenesis in mice. <i>Scientific Reports</i> , 2016, 6, 31849.	3.3	16
58	Pharmacological inhibition of the F <sub>1</sub> ATPase/P2Y <sub>1</sub> pathway suppresses the effect of apolipoprotein A1 on endothelial nitric oxide synthesis and vasorelaxation. <i>Acta Physiologica</i> , 2019, 226, e13268.	3.8	12
59	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.	6.5	11
60	Camu-Camu Reduces Obesity and Improves Diabetic Profiles of Obese and Diabetic Mice: A Dose-Ranging Study. <i>Metabolites</i> , 2022, 12, 301.	2.9	7
61	Maternal hypertension induces tissue-specific modulations of the apelinergic system in the fetoplacental unit in rat. <i>Peptides</i> , 2012, 35, 136-138.	2.4	6
62	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.	5.1	3
63	Glucose Stimulates Gut Motility in Fasted and Fed Conditions: Potential Involvement of a Nitric Oxide Pathway. <i>Nutrients</i> , 2022, 14, 2176.	4.1	3
64	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, 219.	4.1	2
65	5/6 nephrectomy affects enteric glial cells and promotes impaired antioxidant defense in the colonic neuromuscular layer. <i>Life Sciences</i> , 2022, 298, 120494.	4.3	2
66	Endothelin-1 Exhibiting Pro-Nociceptive and Pro-Peristaltic Activities Is Increased in Peritoneal Carcinomatosis. <i>Frontiers in Pain Research</i> , 2021, 2, 613187.	2.0	1
67	Prebiotics and Modulation of Gastrointestinal Peptides. , 2008, , 247-262.		0
68	Apelin Metabolic Functions. , 2013, , 201-211.		0
69	Axe intestin-cerveau et contrÃle du mÃtabolisme glucidique. <i>Cahiers De Nutrition Et De Dietetique</i> , 2018, 53, 53-61.	0.3	0