

Remy Burcelin

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

23,163
citations

38742

50
h-index

31849

101
g-index

108
all docs

108
docs citations

108
times ranked

26421
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	Host-Gut Microbiota Metabolic Interactions. <i>Science</i> , 2012, 336, 1262-1267.	12.6	3,693
4	Metformin alters the gut microbiome of individuals with treatment-naive type 2 diabetes, contributing to the therapeutic effects of the drug. <i>Nature Medicine</i> , 2017, 23, 850-858.	30.7	1,165
5	Intestinal mucosal adherence and translocation of commensal bacteria at the early onset of type 2 diabetes: molecular mechanisms and probiotic treatment. <i>EMBO Molecular Medicine</i> , 2011, 3, 559-572.	6.9	694
6	Metabolic adaptation to a high-fat diet is associated with a change in the gut microbiota. <i>Gut</i> , 2012, 61, 543-553.	12.1	511
7	Energy intake is associated with endotoxemia in apparently healthy men. <i>American Journal of Clinical Nutrition</i> , 2008, 87, 1219-1223.	4.7	498
8	Molecular phenomics and metagenomics of hepatic steatosis in non-diabetic obese women. <i>Nature Medicine</i> , 2018, 24, 1070-1080.	30.7	465
9	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
10	Comprehensive description of blood microbiome from healthy donors assessed by 16S targeted metagenomic sequencing. <i>Transfusion</i> , 2016, 56, 1138-1147.	1.6	355
11	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
12	The Gut Microbiota Regulates Intestinal CD4 ⁺ Cells Expressing ROR γ t and Controls Metabolic Disease. <i>Cell Metabolism</i> , 2015, 22, 100-112.	16.2	248
13	Heterogeneous metabolic adaptation of C57BL/6J mice to high-fat diet. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2002, 282, E834-E842.	3.5	246
14	Emulsified lipids increase endotoxemia: possible role in early postprandial low-grade inflammation. <i>Journal of Nutritional Biochemistry</i> , 2011, 22, 53-59.	4.2	235
15	Changes in blood microbiota profiles associated with liver fibrosis in obese patients: A pilot analysis. <i>Hepatology</i> , 2016, 64, 2015-2027.	7.3	230
16	Therapeutic Modulation of Microbiota-Host Metabolic Interactions. <i>Science Translational Medicine</i> , 2012, 4, 137rv6.	12.4	211
17	Periodontitis induced by <i>Porphyromonas gingivalis</i> drives periodontal microbiota dysbiosis and insulin resistance via an impaired adaptive immune response. <i>Gut</i> , 2017, 66, 872-885.	12.1	210
18	Blood Microbiota Dysbiosis Is Associated with the Onset of Cardiovascular Events in a Large General Population: The D.E.S.I.R. Study. <i>PLoS ONE</i> , 2013, 8, e54461.	2.5	201

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19	Gut microbiota and diabetes: from pathogenesis to therapeutic perspective. <i>Acta Diabetologica</i> , 2011, 48, 257-273.	2.5	199
20	Genetic deficiency of indoleamine 2,3-dioxygenase promotes gut microbiota-mediated metabolic health. <i>Nature Medicine</i> , 2018, 24, 1113-1120.	30.7	193
21	A Specific Gut Microbiota Dysbiosis of Type 2 Diabetic Mice Induces GLP-1 Resistance through an Enteric NO-Dependent and Gut-Brain Axis Mechanism. <i>Cell Metabolism</i> , 2017, 25, 1075-1090.e5.	16.2	179
22	Defective <i>NOD2</i> peptidoglycan sensing promotes diet-induced inflammation, dysbiosis, and insulin resistance. <i>EMBO Molecular Medicine</i> , 2015, 7, 259-274.	6.9	160
23	The Characterization of Novel Tissue Microbiota Using an Optimized 16S Metagenomic Sequencing Pipeline. <i>PLoS ONE</i> , 2015, 10, e0142334.	2.5	155
24	Gut microbiota and immune crosstalk in metabolic disease. <i>Molecular Metabolism</i> , 2016, 5, 771-781.	6.5	141
25	Physiological and Pharmacological Mechanisms through which the DPP-4 Inhibitor Sitagliptin Regulates Glycemia in Mice. <i>Endocrinology</i> , 2011, 152, 3018-3029.	2.8	134
26	Gut Microbiota Interacts With Brain Microstructure and Function. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015, 100, 4505-4513.	3.6	130
27	Partial Gene Deletion of Endothelial Nitric Oxide Synthase Predisposes to Exaggerated High-Fat Diet-Induced Insulin Resistance and Arterial Hypertension. <i>Diabetes</i> , 2004, 53, 2067-2072.	0.6	128
28	Immuno-microbiota cross and talk: The new paradigm of metabolic diseases. <i>Seminars in Immunology</i> , 2012, 24, 67-74.	5.6	126
29	Neuroprotective properties of GLP-1: theoretical and practical applications. <i>Current Medical Research and Opinion</i> , 2011, 27, 547-558.	1.9	125
30	Resveratrol Increases Glucose Induced GLP-1 Secretion in Mice: A Mechanism which Contributes to the Glycemic Control. <i>PLoS ONE</i> , 2011, 6, e20700.	2.5	124
31	Role of Central Nervous System Glucagon-Like Peptide-1 Receptors in Enteric Glucose Sensing. <i>Diabetes</i> , 2008, 57, 2603-2612.	0.6	116
32	Metagenome and metabolism: the tissue microbiota hypothesis. <i>Diabetes, Obesity and Metabolism</i> , 2013, 15, 61-70.	4.4	112
33	A role for adipocyte-derived lipopolysaccharide-binding protein in inflammation- and obesity-associated adipose tissue dysfunction. <i>Diabetologia</i> , 2013, 56, 2524-2537.	6.3	109
34	Probiotic With or Without Fiber Controls Body Fat Mass, Associated With Serum Zonulin, in Overweight and Obese Adults—Randomized Controlled Trial. <i>EBioMedicine</i> , 2016, 13, 190-200.	6.1	108
35	Brain Glucagon-Like Peptide-1 Regulates Arterial Blood Flow, Heart Rate, and Insulin Sensitivity. <i>Diabetes</i> , 2008, 57, 2577-2587.	0.6	107
36	Gestational diabetes is associated with changes in placental microbiota and microbiome. <i>Pediatric Research</i> , 2016, 80, 777-784.	2.3	104

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37	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
38	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
39	Metabolic endotoxemia directly increases the proliferation of adipocyte precursors at the onset of metabolic diseases through a CD14-dependent mechanism. <i>Molecular Metabolism</i> , 2013, 2, 281-291.	6.5	84
40	CD14 Modulates Inflammation-Driven Insulin Resistance. <i>Diabetes</i> , 2011, 60, 2179-2186.	0.6	83
41	Far from the Eyes, Close to the Heart: Dysbiosis of Gut Microbiota and Cardiovascular Consequences. <i>Current Cardiology Reports</i> , 2014, 16, 540.	2.9	81
42	Optimization of trans-Resveratrol bioavailability for human therapy. <i>Biochimie</i> , 2013, 95, 1233-1238.	2.6	79
43	Transcript Profiling Suggests That Differential Metabolic Adaptation of Mice to a High Fat Diet Is Associated with Changes in Liver to Muscle Lipid Fluxes. <i>Journal of Biological Chemistry</i> , 2004, 279, 50743-50753.	3.4	77
44	PPAR α Ligands Switched High Fat Diet-Induced Macrophage M2b Polarization toward M2a Thereby Improving Intestinal Candida Elimination. <i>PLoS ONE</i> , 2010, 5, e12828.	2.5	73
45	Iron status influences non-alcoholic fatty liver disease in obesity through the gut microbiome. <i>Microbiome</i> , 2021, 9, 104.	11.1	70
46	The incretins: a link between nutrients and well-being. <i>British Journal of Nutrition</i> , 2005, 93, S147-S156.	2.3	67
47	High-Fat Diet Induces Periodontitis in Mice through Lipopolysaccharides (LPS) Receptor Signaling: Protective Action of Estrogens. <i>PLoS ONE</i> , 2012, 7, e48220.	2.5	67
48	Oral microbiota-induced periodontitis: a new risk factor of metabolic diseases. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2019, 20, 449-459.	5.7	57
49	Increased insulin concentrations and glucose storage in neuropeptide Y Y1 receptor-deficient mice. <i>Peptides</i> , 2001, 22, 421-427.	2.4	56
50	Specific actions of GLP-1 receptor agonists and DPP4 inhibitors for the treatment of pancreatic β -cell impairments in type 2 diabetes. <i>Cellular Signalling</i> , 2013, 25, 570-579.	3.6	54
51	The gut microbiota ecology: a new opportunity for the treatment of metabolic diseases ?. <i>Frontiers in Bioscience - Landmark</i> , 2009, 14, 5107.	3.0	52
52	Associations between hepatic miRNA expression, liver triacylglycerols and gut microbiota during metabolic adaptation to high-fat diet in mice. <i>Diabetologia</i> , 2017, 60, 690-700.	6.3	52
53	The gut microbiota profile is associated with insulin action in humans. <i>Acta Diabetologica</i> , 2013, 50, 753-761.	2.5	50
54	Triggering the adaptive immune system with commensal gut bacteria protects against insulin resistance and dysglycemia. <i>Molecular Metabolism</i> , 2016, 5, 392-403.	6.5	50

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55	GLUT4, AMP kinase, but not the insulin receptor, are required for hepatoportal glucose sensor-stimulated muscle glucose utilization. <i>Journal of Clinical Investigation</i> , 2003, 111, 1555-1562.	8.2	50
56	Probiotic B420 and prebiotic polydextrose improve efficacy of antidiabetic drugs in mice. <i>Diabetology and Metabolic Syndrome</i> , 2015, 7, 75.	2.7	49
57	Glucagon-Like Peptide-1 and Energy Homeostasis ³ . <i>Journal of Nutrition</i> , 2007, 137, 2534S-2538S.	2.9	47
58	A role for the gut-to-brain GLP-1-dependent axis in the control of metabolism. <i>Current Opinion in Pharmacology</i> , 2009, 9, 744-752.	3.5	47
59	Regulation of Metabolism: A Cross Talk Between Gut Microbiota and Its Human Host. <i>Physiology</i> , 2012, 27, 300-307.	3.1	47
60	Cross-omics analysis revealed gut microbiome-related metabolic pathways underlying atherosclerosis development after antibiotics treatment. <i>Molecular Metabolism</i> , 2020, 36, 100976.	6.5	46
61	Central Insulin Regulates Heart Rate and Arterial Blood Flow. <i>Diabetes</i> , 2007, 56, 2872-2877.	0.6	44
62	Impaired Glucose Homeostasis in Mice Lacking the β -Adrenergic Receptor Subtype. <i>Journal of Biological Chemistry</i> , 2004, 279, 1108-1115.	3.4	43
63	Transfer of dysbiotic gut microbiota has beneficial effects on host liver metabolism. <i>Molecular Systems Biology</i> , 2017, 13, 921.	7.2	43
64	Changes in Lipoprotein Kinetics Associated With Type 2 Diabetes Affect the Distribution of Lipopolysaccharides Among Lipoproteins. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2014, 99, E1245-E1253.	3.6	38
65	Brain GLP-1 Signaling Regulates Femoral Artery Blood Flow and Insulin Sensitivity Through Hypothalamic PKC- δ . <i>Diabetes</i> , 2011, 60, 2245-2256.	0.6	37
66	Intestinal MicrobiOMICS to Define Health and Disease in Human and Mice. <i>Current Pharmaceutical Biotechnology</i> , 2012, 13, 746-758.	1.6	34
67	The gut microbiota to the brain axis in the metabolic control. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2019, 20, 427-438.	5.7	33
68	Encapsulated, Genetically Engineered Cells, Secreting Glucagon-Like Peptide-1 for the Treatment of Non-insulin-dependent Diabetes Mellitus. <i>Annals of the New York Academy of Sciences</i> , 1999, 875, 277-285.	3.8	32
69	Obese Subjects With Specific Gustatory Papillae Microbiota and Salivary Cues Display an Impairment to Sense Lipids. <i>Scientific Reports</i> , 2018, 8, 6742.	3.3	32
70	GLUT4, AMP kinase, but not the insulin receptor, are required for hepatoportal glucose sensor-stimulated muscle glucose utilization. <i>Journal of Clinical Investigation</i> , 2003, 111, 1555-1562.	8.2	31
71	Resveratrol-mediated glycemic regulation is blunted by curcumin and is associated to modulation of gut microbiota. <i>Journal of Nutritional Biochemistry</i> , 2019, 72, 108218.	4.2	28
72	Liver tissue microbiome in NAFLD: next step in understanding the gut-liver axis?. <i>Gut</i> , 2020, 69, 1373-1374.	12.1	27

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73	Integrative study of diet-induced mouse models of NAFLD identifies PPAR α as a sexually dimorphic drug target. <i>Gut</i> , 2022, 71, 807-821.	12.1	26
74	Periodontal dysbiosis linked to periodontitis is associated with cardiometabolic adaptation to high-fat diet in mice. <i>American Journal of Physiology - Renal Physiology</i> , 2016, 310, G1091-G1101.	3.4	20
75	Liraglutide targets the gut microbiota and the intestinal immune system to regulate insulin secretion. <i>Acta Diabetologica</i> , 2021, 58, 881-897.	2.5	18
76	Oral health and microbiota status in professional rugby players: A case-control study. <i>Journal of Dentistry</i> , 2018, 79, 53-60.	4.1	16
77	Microbes On-Air. <i>Journal of Clinical Gastroenterology</i> , 2012, 46, S27-S28.	2.2	15
78	Corrupted adipose tissue endogenous myelopoiesis initiates diet-induced metabolic disease. <i>ELife</i> , 2017, 6, .	6.0	15
79	Structure function relationships in three lipids A from the <i>Ralstonia</i> genus rising in obese patients. <i>Biochimie</i> , 2019, 159, 72-80.	2.6	13
80	Identification of an oral microbiota signature associated with an impaired orosensory perception of lipids in insulin-resistant patients. <i>Acta Diabetologica</i> , 2020, 57, 1445-1451.	2.5	13
81	When gut fermentation controls satiety: A PYY story. <i>Molecular Metabolism</i> , 2017, 6, 10-11.	6.5	11
82	Lixisenatide requires a functional gut-vagus nerve-brain axis to trigger insulin secretion in controls and type 2 diabetic mice. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 315, G671-G684.	3.4	10
83	Fatty taste variability in obese subjects: the oral microbiota hypothesis. <i>OCL - Oilseeds and Fats, Crops and Lipids</i> , 2020, 27, 38.	1.4	9
84	Lipid-Induced Peroxidation in the Intestine Is Involved in Glucose Homeostasis Imbalance in Mice. <i>PLoS ONE</i> , 2011, 6, e21184.	2.5	9
85	Getting to Know the Gut Microbial Diversity of Metropolitan Buenos Aires Inhabitants. <i>Frontiers in Microbiology</i> , 2019, 10, 965.	3.5	8
86	Gut microbiota dysbiosis of type 2 diabetic mice impairs the intestinal daily rhythms of GLP-1 sensitivity. <i>Acta Diabetologica</i> , 2022, 59, 243-258.	2.5	8
87	Gut Microbiota and Metabolic Diseases: From Pathogenesis to Therapeutic Perspective. <i>Molecular and Integrative Toxicology</i> , 2015, , 199-234.	0.5	7
88	The APOA1b-p-SREBF α -NOTCH axis is associated with reduced atherosclerosis risk in morbidly obese patients. <i>Clinical Nutrition</i> , 2020, 39, 3408-3418.	5.0	7
89	Obesity Drives an Oral Microbiota Signature of Female Patients with Periodontitis: A Pilot Study. <i>Diagnostics</i> , 2021, 11, 745.	2.6	7
90	Gut Microbiota Cool-Down Burning Fat! The Immune Hypothesis. <i>Trends in Endocrinology and Metabolism</i> , 2016, 27, 67-68.	7.1	6

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91	ITCH E3 ubiquitin ligase downregulation compromises hepatic degradation of branched-chain amino acids. <i>Molecular Metabolism</i> , 2022, 59, 101454.	6.5	5
92	CX3CR1 regulates gut microbiota and metabolism. A risk factor of type 2 diabetes. <i>Acta Diabetologica</i> , 2021, 58, 1035-1049.	2.5	4
93	Autonomic Diabetic Neuropathy Impairs Glucose and Dipeptidyl Peptidase 4 Inhibitor-Regulated Glucagon Concentration in Type 1 Diabetic Patients. <i>Journal of Endocrinology and Metabolism</i> , 2015, 5, 229-237.	0.4	3
94	Endurance Training in Humans Modulates the Bacterial DNA Signature of Skeletal Muscle. <i>Biomedicines</i> , 2022, 10, 64.	3.2	3
95	Implication des bactéries orales et intestinales dans le déroulement des maladies cardio-métaboliques et du diabète de type 2. <i>Medecine Des Maladies Metaboliques</i> , 2022, , .	0.1	2
96	Gut microbiota and metabolic diseases: myth or reality?. <i>Mediterranean Journal of Nutrition and Metabolism</i> , 2010, 4, 75-77.	0.5	0
97	Les lipopolysaccharides bactériens et les maladies métaboliques. <i>Cahiers De Nutrition Et De Dietetique</i> , 2010, 45, 114-121.	0.3	0
98	Gut microbiota and metabolic diseases: myth or reality?. <i>Mediterranean Journal of Nutrition and Metabolism</i> , 2011, 4, 75-77.	0.5	0
99	Consider the microbiome in the equation! They were here before us...and hosted us!. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2019, 20, 383-385.	5.7	0
100	Variabilité de la perception orosensorielle des lipides chez les sujets obèses: l'hypothèse du microbiote buccal. <i>Cahiers De Nutrition Et De Dietetique</i> , 2021, 56, 292-292.	0.3	0
101	L'intestin métabolique : dualité fonctionnelle des intricantes et de la flore intestinale. <i>Bulletin De L'Academie Nationale De Medecine</i> , 2013, 197, 79-92.	0.0	0