# Remy Burcelin

## 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.

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| 99 papers | 17,497 citations | 48 h-index | 108 g-index |
| 108 ext. papers | 20,740 ext. citations | 7.9 avg, IF | 6.3 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 99 | Metabolic endotoxemia initiates obesity and insulin resistance. *Diabetes*, **2007**, 56, 1761-72 | 0.9 | 3888 |
| 98 | Changes in gut microbiota control metabolic endotoxemia-induced inflammation in high-fat diet-induced obesity and diabetes in mice. *Diabetes*, **2008**, 57, 1470-81 | 0.9 | 3072 |
| 97 | Host-gut microbiota metabolic interactions. *Science*, **2012**, 336, 1262-7 | 33.3 | 2728 |
| 96 | Metformin alters the gut microbiome of individuals with treatment-naive type 2 diabetes, contributing to the therapeutic effects of the drug. *Nature Medicine*, **2017**, 23, 850-858 | 50.5 | 732 |
| 95 | Intestinal mucosal adherence and translocation of commensal bacteria at the early onset of type 2 diabetes: molecular mechanisms and probiotic treatment. *EMBO Molecular Medicine*, **2011**, 3, 559-72 | 12 | 537 |
| 94 | Energy intake is associated with endotoxemia in apparently healthy men. *American Journal of Clinical Nutrition*, **2008**, 87, 1219-23 | 7 | 420 |
| 93 | Metabolic adaptation to a high-fat diet is associated with a change in the gut microbiota. *Gut*, **2012**, 61, 543-53 | 19.2 | 415 |
| 92 | Improvement of glucose tolerance and hepatic insulin sensitivity by oligofructose requires a functional glucagon-like peptide 1 receptor. *Diabetes*, **2006**, 55, 1484-90 | 0.9 | 314 |
| 91 | Molecular phenomics and metagenomics of hepatic steatosis in non-diabetic obese women. *Nature Medicine*, **2018**, 24, 1070-1080 | 50.5 | 276 |
| 90 | Brain glucagon-like peptide-1 increases insulin secretion and muscle insulin resistance to favor hepatic glycogen storage. *Journal of Clinical Investigation*, **2005**, 115, 3554-63 | 15.9 | 230 |
| 89 | Heterogeneous metabolic adaptation of C57BL/6J mice to high-fat diet. *American Journal of Physiology - Endocrinology and Metabolism*, **2002**, 282, E834-42 | 6 | 223 |
| 88 | Comprehensive description of blood microbiome from healthy donors assessed by 16S targeted metagenomic sequencing. *Transfusion*, **2016**, 56, 1138-47 | 2.9 | 207 |
| 87 | Emulsified lipids increase endotoxemia: possible role in early postprandial low-grade inflammation. *Journal of Nutritional Biochemistry*, **2011**, 22, 53-9 | 6.3 | 195 |
| 86 | The Gut Microbiota Regulates Intestinal CD4 T Cells Expressing RORγt and Controls Metabolic Disease. *Cell Metabolism*, **2015**, 22, 100-12 | 24.6 | 175 |
| 85 | Therapeutic modulation of microbiota-host metabolic interactions. *Science Translational Medicine*, **2012**, 4, 137rv6 | 17.5 | 170 |
| 84 | Gut microbiota and diabetes: from pathogenesis to therapeutic perspective. *Acta Diabetologica*, **2011**, 48, 257-273 | 3.9 | 170 |
| 83 | Changes in blood microbiota profiles associated with liver fibrosis in obese patients: A pilot analysis. *Hepatology*, **2016**, 64, 2015-2027 | 11.2 | 137 |

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| 82 | Blood microbiota dysbiosis is associated with the onset of cardiovascular events in a large general population: the D.E.S.I.R. study. *PLoS ONE*, **2013**, 8, e54461 | 3.7 | 127 |
| 81 | A Specific Gut Microbiota Dysbiosis of Type 2 Diabetic Mice Induces GLP-1 Resistance through an Enteric NO-Dependent and Gut-Brain Axis Mechanism. *Cell Metabolism*, **2017**, 25, 1075-1090.e5 | 24.6 | 124 |
| 80 | Genetic deficiency of indoleamine 2,3-dioxygenase promotes gut microbiota-mediated metabolic health. *Nature Medicine*, **2018**, 24, 1113-1120 | 50.5 | 121 |
| 79 | Physiological and pharmacological mechanisms through which the DPP-4 inhibitor sitagliptin regulates glycemia in mice. *Endocrinology*, **2011**, 152, 3018-29 | 4.8 | 120 |
| 78 | Defective NOD2 peptidoglycan sensing promotes diet-induced inflammation, dysbiosis, and insulin resistance. *EMBO Molecular Medicine*, **2015**, 7, 259-74 | 12 | 118 |
| 77 | Neuroprotective properties of GLP-1: theoretical and practical applications. *Current Medical Research and Opinion*, **2011**, 27, 547-58 | 2.5 | 112 |
| 76 | Partial gene deletion of endothelial nitric oxide synthase predisposes to exaggerated high-fat diet-induced insulin resistance and arterial hypertension. *Diabetes*, **2004**, 53, 2067-72 | 0.9 | 109 |
| 75 | Periodontitis induced by drives periodontal microbiota dysbiosis and insulin resistance via an impaired adaptive immune response. *Gut*, **2017**, 66, 872-885 | 19.2 | 107 |
| 74 | Resveratrol increases glucose induced GLP-1 secretion in mice: a mechanism which contributes to the glycemic control. *PLoS ONE*, **2011**, 6, e20700 | 3.7 | 106 |
| 73 | Role of central nervous system glucagon-like Peptide-1 receptors in enteric glucose sensing. *Diabetes*, **2008**, 57, 2603-12 | 0.9 | 106 |
| 72 | Immuno-microbiota cross and talk: the new paradigm of metabolic diseases. *Seminars in Immunology*, **2012**, 24, 67-74 | 10.7 | 103 |
| 71 | Brain glucagon-like peptide-1 regulates arterial blood flow, heart rate, and insulin sensitivity. *Diabetes*, **2008**, 57, 2577-87 | 0.9 | 100 |
| 70 | Gut microbiota and immune crosstalk in metabolic disease. *Molecular Metabolism*, **2016**, 5, 771-81 | 8.8 | 89 |
| 69 | The Characterization of Novel Tissue Microbiota Using an Optimized 16S Metagenomic Sequencing Pipeline. *PLoS ONE*, **2015**, 10, e0142334 | 3.7 | 88 |
| 68 | Gut Microbiota Interacts With Brain Microstructure and Function. *Journal of Clinical Endocrinology and Metabolism*, **2015**, 100, 4505-13 | 5.6 | 88 |
| 67 | Brain glucagon-like peptide 1 signaling controls the onset of high-fat diet-induced insulin resistance and reduces energy expenditure. *Endocrinology*, **2008**, 149, 4768-77 | 4.8 | 86 |
| 66 | GLUT2 and the incretin receptors are involved in glucose-induced incretin secretion. *Molecular and Cellular Endocrinology*, **2007**, 276, 18-23 | 4.4 | 80 |
| 65 | Probiotic With or Without Fiber Controls Body Fat Mass, Associated With Serum Zonulin, in Overweight and Obese Adults-Randomized Controlled Trial. *EBioMedicine*, **2016**, 13, 190-200 | 8.8 | 79 |

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| 64 | CD14 modulates inflammation-driven insulin resistance. *Diabetes*, **2011**, 60, 2179-86 | 0.9 | 78 |
| 63 | Metagenome and metabolism: the tissue microbiota hypothesis. *Diabetes, Obesity and Metabolism*, **2013**, 15 Suppl 3, 61-70 | 6.7 | 77 |
| 62 | A role for adipocyte-derived lipopolysaccharide-binding protein in inflammation- and obesity-associated adipose tissue dysfunction. *Diabetologia*, **2013**, 56, 2524-37 | 10.3 | 75 |
| 61 | Transcript profiling suggests that differential metabolic adaptation of mice to a high fat diet is associated with changes in liver to muscle lipid fluxes. *Journal of Biological Chemistry*, **2004**, 279, 50743-53 | 5.4 | 72 |
| 60 | Gestational diabetes is associated with changes in placental microbiota and microbiome. *Pediatric Research*, **2016**, 80, 777-784 | 3.2 | 72 |
| 59 | Far from the eyes, close to the heart: dysbiosis of gut microbiota and cardiovascular consequences. *Current Cardiology Reports*, **2014**, 16, 540 | 4.2 | 67 |
| 58 | Optimization of trans-Resveratrol bioavailability for human therapy. *Biochimie*, **2013**, 95, 1233-8 | 4.6 | 67 |
| 57 | Metabolic endotoxemia directly increases the proliferation of adipocyte precursors at the onset of metabolic diseases through a CD14-dependent mechanism. *Molecular Metabolism*, **2013**, 2, 281-91 | 8.8 | 66 |
| 56 | PPAR□ligands switched high fat diet-induced macrophage M2b polarization toward M2a thereby improving intestinal Candida elimination. *PLoS ONE*, **2010**, 5, e12828 | 3.7 | 61 |
| 55 | The incretins: a link between nutrients and well-being. *British Journal of Nutrition*, **2005**, 93 Suppl 1, S147-56 | 3.6 | 60 |
| 54 | Increased insulin concentrations and glucose storage in neuropeptide Y Y1 receptor-deficient mice. *Peptides*, **2001**, 22, 421-7 | 3.8 | 51 |
| 53 | Specific actions of GLP-1 receptor agonists and DPP4 inhibitors for the treatment of pancreatic □cell impairments in type 2 diabetes. *Cellular Signalling*, **2013**, 25, 570-9 | 4.9 | 49 |
| 52 | High-fat diet induces periodontitis in mice through lipopolysaccharides (LPS) receptor signaling: protective action of estrogens. *PLoS ONE*, **2012**, 7, e48220 | 3.7 | 49 |
| 51 | The gut microbiota ecology: a new opportunity for the treatment of metabolic diseases?. *Frontiers in Bioscience - Landmark*, **2009**, 14, 5107-17 | 2.8 | 43 |
| 50 | Central insulin regulates heart rate and arterial blood flow: an endothelial nitric oxide synthase-dependent mechanism altered during diabetes. *Diabetes*, **2007**, 56, 2872-7 | 0.9 | 40 |
| 49 | Glucagon-like peptide-1 and energy homeostasis. *Journal of Nutrition*, **2007**, 137, 2534S-2538S | 4.1 | 40 |
| 48 | The gut microbiota profile is associated with insulin action in humans. *Acta Diabetologica*, **2013**, 50, 753-61 | 3.9 | 39 |
| 47 | Impaired glucose homeostasis in mice lacking the alpha1b-adrenergic receptor subtype. *Journal of Biological Chemistry*, **2004**, 279, 1108-15 | 5.4 | 38 |

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| 46 | GLUT4, AMP kinase, but not the insulin receptor, are required for hepatoportal glucose sensor-stimulated muscle glucose utilization. *Journal of Clinical Investigation*, **2003**, 111, 1555-1562 | 15.9 | 38 |
| 45 | Triggering the adaptive immune system with commensal gut bacteria protects against insulin resistance and dysglycemia. *Molecular Metabolism*, **2016**, 5, 392-403 | 8.8 | 38 |
| 44 | A role for the gut-to-brain GLP-1-dependent axis in the control of metabolism. *Current Opinion in Pharmacology*, **2009**, 9, 744-52 | 5.1 | 37 |
| 43 | Regulation of metabolism: a cross talk between gut microbiota and its human host. *Physiology*, **2012**, 27, 300-7 | 9.8 | 36 |
| 42 | Associations between hepatic miRNA expression, liver triacylglycerols and gut microbiota during metabolic adaptation to high-fat diet in mice. *Diabetologia*, **2017**, 60, 690-700 | 10.3 | 34 |
| 41 | Probiotic B420 and prebiotic polydextrose improve efficacy of antidiabetic drugs in mice. *Diabetology and Metabolic Syndrome*, **2015**, 7, 75 | 5.6 | 34 |
| 40 | Brain GLP-1 signaling regulates femoral artery blood flow and insulin sensitivity through hypothalamic PKC-. *Diabetes*, **2011**, 60, 2245-56 | 0.9 | 33 |
| 39 | Transfer of dysbiotic gut microbiota has beneficial effects on host liver metabolism. *Molecular Systems Biology*, **2017**, 13, 921 | 12.2 | 32 |
| 38 | Intestinal MicrobiOMICS to define health and disease in human and mice. *Current Pharmaceutical Biotechnology*, **2012**, 13, 746-58 | 2.6 | 32 |
| 37 | Oral microbiota-induced periodontitis: a new risk factor of metabolic diseases. *Reviews in Endocrine and Metabolic Disorders*, **2019**, 20, 449-459 | 10.5 | 29 |
| 36 | Cross-omics analysis revealed gut microbiome-related metabolic pathways underlying atherosclerosis development after antibiotics treatment. *Molecular Metabolism*, **2020**, 36, 100976 | 8.8 | 26 |
| 35 | Encapsulated, genetically engineered cells, secreting glucagon-like peptide-1 for the treatment of non-insulin-dependent diabetes mellitus. *Annals of the New York Academy of Sciences*, **1999**, 875, 277-85 | 6.5 | 25 |
| 34 | Obese Subjects With Specific Gustatory Papillae Microbiota and Salivary Cues Display an Impairment to Sense Lipids. *Scientific Reports*, **2018**, 8, 6742 | 4.9 | 22 |
| 33 | Changes in lipoprotein kinetics associated with type 2 diabetes affect the distribution of lipopolysaccharides among lipoproteins. *Journal of Clinical Endocrinology and Metabolism*, **2014**, 99, E1245-53 | 5.6 | 22 |
| 32 | The gut microbiota to the brain axis in the metabolic control. *Reviews in Endocrine and Metabolic Disorders*, **2019**, 20, 427-438 | 10.5 | 21 |
| 31 | GLUT4, AMP kinase, but not the insulin receptor, are required for hepatoportal glucose sensor-stimulated muscle glucose utilization. *Journal of Clinical Investigation*, **2003**, 111, 1555-62 | 15.9 | 21 |
| 30 | Resveratrol-mediated glycemic regulation is blunted by curcumin and is associated to modulation of gut microbiota. *Journal of Nutritional Biochemistry*, **2019**, 72, 108218 | 6.3 | 19 |
| 29 | Iron status influences non-alcoholic fatty liver disease in obesity through the gut microbiome. *Microbiome*, **2021**, 9, 104 | 16.6 | 15 |

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| 28 | Microbes on-air: gut and tissue microbiota as targets in type 2 diabetes. *Journal of Clinical Gastroenterology*, **2012**, 46 Suppl, S27-8 | 3 | 14 |
| 27 | Periodontal dysbiosis linked to periodontitis is associated with cardiometabolic adaptation to high-fat diet in mice. *American Journal of Physiology - Renal Physiology*, **2016**, 310, G1091-101 | 5.1 | 13 |
| 26 | Liver tissue microbiome in NAFLD: next step in understanding the gut-liver axis?. *Gut*, **2020**, 69, 1373-1374 | 19.2 | 10 |
| 25 | Corrupted adipose tissue endogenous myelopoiesis initiates diet-induced metabolic disease. *ELife*, **2017**, 6, | 8.9 | 10 |
| 24 | When gut fermentation controls satiety: A PYY story. *Molecular Metabolism*, **2017**, 6, 10-11 | 8.8 | 9 |
| 23 | Lixisenatide requires a functional gut-vagus nerve-brain axis to trigger insulin secretion in controls and type 2 diabetic mice. *American Journal of Physiology - Renal Physiology*, **2018**, 315, G671-G684 | 5.1 | 9 |
| 22 | Oral health and microbiota status in professional rugby players: A case-control study. *Journal of Dentistry*, **2018**, 79, 53-60 | 4.8 | 9 |
| 21 | Lipid-induced peroxidation in the intestine is involved in glucose homeostasis imbalance in mice. *PLoS ONE*, **2011**, 6, e21184 | 3.7 | 7 |
| 20 | Identification of an oral microbiota signature associated with an impaired orosensory perception of lipids in insulin-resistant patients. *Acta Diabetologica*, **2020**, 57, 1445-1451 | 3.9 | 6 |
| 19 | Structure function relationships in three lipids A from the Ralstonia genus rising in obese patients. *Biochimie*, **2019**, 159, 72-80 | 4.6 | 5 |
| 18 | Getting to Know the Gut Microbial Diversity of Metropolitan Buenos Aires Inhabitants. *Frontiers in Microbiology*, **2019**, 10, 965 | 5.7 | 5 |
| 17 | Gut Microbiota and Metabolic Diseases: From Pathogenesis to Therapeutic Perspective. *Molecular and Integrative Toxicology*, **2015**, 199-234 | 0.5 | 5 |
| 16 | The APOA1bp-SREBF-NOTCH axis is associated with reduced atherosclerosis risk in morbidly obese patients. *Clinical Nutrition*, **2020**, 39, 3408-3418 | 5.9 | 5 |
| 15 | Gut Microbiota Cool-Down Burning Fat! The Immune Hypothesis. *Trends in Endocrinology and Metabolism*, **2016**, 27, 67-68 | 8.8 | 5 |
| 14 | Liraglutide targets the gut microbiota and the intestinal immune system to regulate insulin secretion. *Acta Diabetologica*, **2021**, 58, 881-897 | 3.9 | 5 |
| 13 | Integrative study of diet-induced mouse models of NAFLD identifies PPARas a sexually dimorphic drug target. *Gut*, **2021**, | 19.2 | 4 |
| 12 | Autonomic Diabetic Neuropathy Impairs Glucose and Dipeptidyl Peptidase 4 Inhibitor-Regulated Glucagon Concentration in Type 1 Diabetic Patients. *Journal of Endocrinology and Metabolism*, **2015**, 5, 229-237 | 2.8 | 3 |
| 11 | Fatty taste variability in obese subjects: the oral microbiota hypothesis. *OCL - Oilseeds and Fats, Crops and Lipids*, **2020**, 27, 38 | 1.5 | 3 |

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| 10 | Obesity Drives an Oral Microbiota Signature of Female Patients with Periodontitis: A Pilot Study. *Diagnostics*, **2021**, 11, | 3.8 | 2 |
| 9 | CX3CR1 regulates gut microbiota and metabolism. A risk factor of type 2 diabetes. *Acta Diabetologica*, **2021**, 58, 1035-1049 | 3.9 | 1 |
| 8 | Implication des bactéries orales et intestinales dans le décours des maladies cardio-métaboliques et du diabète de type 2. *Medecine Des Maladies Metaboliques*, **2022**, | 0.1 | 0 |
| 7 | ITCH E3 Ubiquitin Ligase downregulation compromises hepatic degradation of branched-chain amino acids.. *Molecular Metabolism*, **2022**, 101454 | 8.8 | 0 |
| 6 | Gut microbiota dysbiosis of type 2 diabetic mice impairs the intestinal daily rhythms of GLP-1 sensitivity. *Acta Diabetologica*, **2021**, 1 | 3.9 | 0 |
| 5 | Gut microbiota and metabolic diseases: myth or reality?. *Mediterranean Journal of Nutrition and Metabolism*, **2011**, 4, 75-77 | 1.3 | |
| 4 | Gut microbiota and metabolic diseases: myth or reality?. *Mediterranean Journal of Nutrition and Metabolism*, **2010**, 4, 75-77 | 1.3 | |
| 3 | Les lipopolysaccharides bactériens et les maladies métaboliques. *Cahiers De Nutrition Et De Dietetique*, **2010**, 45, 114-121 | 0.2 | |
| 2 | L'intestin métabolique : dualité fonctionnelle des incrétines et de la flore intestinale. *Bulletin De L'Academie Nationale De Medecine*, **2013**, 197, 79-92 | 0.1 | |
| 1 | Variabilité de la perception orosensorielle des lipides chez les sujets obèses : l'hypothèse du microbiote buccal. *Cahiers De Nutrition Et De Dietetique*, **2021**, 56, 292-292 | 0.2 | |