Gwenaelle Le Gall

List of Publications by Year in Descending Order

67 papers	2,979 citations	31 h-index	54 g-index
77 ext. papers	3,720 ext. citations	6.4 avg, IF	4.91 L-index

#	Paper	IF	Citations
67	Lipopolysaccharide associated with β2,6 fructan mediates TLR4-dependent immunomodulatory activity in vitro. *Carbohydrate Polymers*, **2022**, 277, 118606	10.3	4
66	Fecal microbiota transfer between young and aged mice reverses hallmarks of the aging gut, eye, and brain.. *Microbiome*, **2022**, 10, 68	16.6	8
65	Lactobacillus plantarum-Mediated Regulation of Dietary Aluminum Induces Changes in the Human Gut Microbiota: an In Vitro Colonic Fermentation Study. *Probiotics and Antimicrobial Proteins*, **2021**, 13, 398-412	5.5	5
64	Effects of in vitro metabolism of a broccoli leachate, glucosinolates and S-methylcysteine sulphoxide on the human faecal microbiome. *European Journal of Nutrition*, **2021**, 60, 2141-2154	5.2	5
63	Anti-Inflammatory Effects of Quercetin on High-Glucose and Pro-Inflammatory Cytokine Challenged Vascular Endothelial Cell Metabolism. *Molecular Nutrition and Food Research*, **2021**, 65, e2000777	5.9	5
62	Antibiotic-induced disturbances of the gut microbiota result in accelerated breast tumor growth. *IScience*, **2021**, 24, 103012	6.1	11
61	The early life microbiota protects neonatal mice from pathological small intestinal epithelial cell shedding. *FASEB Journal*, **2020**, 34, 7075-7088	0.9	13
60	Identification of Genes Required for Glucan Exopolysaccharide Production in Lactobacillus johnsonii Suggests a Novel Biosynthesis Mechanism. *Applied and Environmental Microbiology*, **2020**, 86,	4.8	5
59	Faecal microbiota transplant from aged donor mice affects spatial learning and memory via modulating hippocampal synaptic plasticity- and neurotransmission-related proteins in young recipients. *Microbiome*, **2020**, 8, 140	16.6	51
58	Systemic iron reduction by venesection alters the gut microbiome in patients with haemochromatosis. *JHEP Reports*, **2020**, 2, 100154	10.3	0
57	genotype influences the gut microbiome structure and function in humans and mice: relevance for Alzheimer's disease pathophysiology. *FASEB Journal*, **2019**, 33, 8221-8231	0.9	60
56	A decrease in iron availability to human gut microbiome reduces the growth of potentially pathogenic gut bacteria; an in vitro colonic fermentation study. *Journal of Nutritional Biochemistry*, **2019**, 67, 20-27	6.3	35
55	Fine-Tuning of Sirtuin 1 Expression Is Essential to Protect the Liver From Cholestatic Liver Disease. *Hepatology*, **2019**, 69, 699-716	11.2	21
54	Serine-rich repeat protein adhesins from Lactobacillus reuteri display strain specific glycosylation profiles. *Glycobiology*, **2019**, 29, 45-58	5.8	8
53	16-O-methylcafestol is present in ground roast Arabica coffees: Implications for authenticity testing. *Food Chemistry*, **2018**, 248, 52-60	8.5	36
52	Optimising conditions for bioethanol production from rice husk and rice straw: effects of pre-treatment on liquor composition and fermentation inhibitors. *Biotechnology for Biofuels*, **2018**, 11, 62	7.8	29
51	Structural analysis of the β-d-glucan produced by the sourdough isolate Lactobacillus brevis E25. *Food Chemistry*, **2018**, 242, 45-52	8.5	39

50	Microbial taxonomic and metabolic alterations during faecal microbiota transplantation to treat Clostridium difficile infection. *Journal of Infection*, **2018**, 77, 107-118	18.9	21
49	Structural and Functional Alterations in the Microbial Community and Immunological Consequences in a Mouse Model of Antibiotic-Induced Dysbiosis. *Frontiers in Microbiology*, **2018**, 9, 1948	5.7	33
48	Metabolite quantification of faecal extracts from colorectal cancer patients and healthy controls. *Oncotarget*, **2018**, 9, 33278-33289	3.3	15
47	Mechanistic Insights Into the Cross-Feeding of and on Host and Dietary Carbohydrates. *Frontiers in Microbiology*, **2018**, 9, 2558	5.7	71
46	Antibiotics induce sustained dysregulation of intestinal T cell immunity by perturbing macrophage homeostasis. *Science Translational Medicine*, **2018**, 10,	17.5	104
45	The divergent restoration effects of Lactobacillus strains in antibiotic-induced dysbiosis. *Journal of Functional Foods*, **2018**, 51, 142-152	5.1	7
44	Acute Consumption of Flavan-3-ol-Enriched Dark Chocolate Affects Human Endogenous Metabolism. *Journal of Proteome Research*, **2017**, 16, 2516-2526	5.6	11
43	Yeast diversity in relation to the production of fuels and chemicals. *Scientific Reports*, **2017**, 7, 14259	4.9	11
42	Membrane-enclosed multienzyme (MEME) synthesis of 2,7-anhydro-sialic acid derivatives. *Carbohydrate Research*, **2017**, 451, 110-117	2.9	4
41	Light-Driven H2 Evolution and C?C or C?O Bond Hydrogenation by Shewanella oneidensis: A Versatile Strategy for Photocatalysis by Nonphotosynthetic Microorganisms. *ACS Catalysis*, **2017**, 7, 7558-7566	13.1	47
40	Low-field (1)H NMR spectroscopy for distinguishing between arabica and robusta ground roast coffees. *Food Chemistry*, **2017**, 216, 106-13	8.5	58
39	Analysis of the Small Molecule Content of Outer Membrane Vesicles Produced by Indicates an Extensive Metabolic Link between Microbe and Host. *Frontiers in Microbiology*, **2017**, 8, 2440	5.7	28
38	A Comparison of the ATP Generating Pathways Used by S. Typhimurium to Fuel Replication within Human and Murine Macrophage and Epithelial Cell Lines. *PLoS ONE*, **2016**, 11, e0150687	3.7	13
37	Can we trust untargeted metabolomics? Results of the metabo-ring initiative, a large-scale, multi-instrument inter-laboratory study. *Metabolomics*, **2015**, 11, 807-821	4.7	84
36	Discovery of intramolecular trans-sialidases in human gut microbiota suggests novel mechanisms of mucosal adaptation. *Nature Communications*, **2015**, 6, 7624	17.4	95
35	Sample collection and preparation of biofluids and extracts for NMR spectroscopy. *Methods in Molecular Biology*, **2015**, 1277, 15-28	1.4	4
34	NMR spectroscopy of biofluids and extracts. *Methods in Molecular Biology*, **2015**, 1277, 29-36	1.4	9
33	Early adaptation to oxygen is key to the industrially important traits of Lactococcus lactis ssp. cremoris during milk fermentation. *BMC Genomics*, **2014**, 15, 1054	4.5	25

32	Strategies for Data Handling and Statistical Analysis in Metabolomics Studies. *Advances in Botanical Research*, **2013**, 493-555	2.2	2
31	Effect of dough mixing on wheat endosperm cell walls. *Journal of Agricultural and Food Chemistry*, **2013**, 61, 2522-9	5.7	5
30	Characterization of cell wall components of wheat straw following hydrothermal pretreatment and fractionation. *Bioresource Technology*, **2013**, 131, 226-34	11	44
29	Structure and biosynthesis of two exopolysaccharides produced by Lactobacillus johnsonii FI9785. *Journal of Biological Chemistry*, **2013**, 288, 31938-51	5.4	83
28	Maternal and cord blood LC-HRMS metabolomics reveal alterations in energy and polyamine metabolism, and oxidative stress in very-low birth weight infants. *Journal of Proteome Research*, **2013**, 12, 2764-78	5.6	42
27	Utilisation of mucin glycans by the human gut symbiont Ruminococcus gnavus is strain-dependent. *PLoS ONE*, **2013**, 8, e76341	3.7	165
26	Spectroscopic analysis of diversity in the spatial distribution of arabinoxylan structures in endosperm cell walls of cereal species in the HEALTHGRAIN diversity collection. *Journal of Cereal Science*, **2012**, 56, 134-141	3.8	16
25	1H-NMR-based metabolic profiling of maternal and umbilical cord blood indicates altered materno-foetal nutrient exchange in preterm infants. *PLoS ONE*, **2012**, 7, e29947	3.7	50
24	Selenium-dependent biogenesis of formate dehydrogenase in Campylobacter jejuni is controlled by the fdhTU accessory genes. *Journal of Bacteriology*, **2012**, 194, 3814-23	3.5	33
23	Prediction of variability in CYP3A4 induction using a combined 1H NMR metabonomics and targeted UPLC-MS approach. *Journal of Proteome Research*, **2011**, 10, 2807-16	5.6	17
22	Metabolomics of prolonged fasting in humans reveals new catabolic markers. *Metabolomics*, **2011**, 7, 375-387	4.7	47
21	Spectroscopic analysis of diversity of Arabinoxylan structures in endosperm cell walls of wheat cultivars (Triticum aestivum) in the HEALTHGRAIN diversity collection. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 7075-82	5.7	31
20	Metabolomics of fecal extracts detects altered metabolic activity of gut microbiota in ulcerative colitis and irritable bowel syndrome. *Journal of Proteome Research*, **2011**, 10, 4208-18	5.6	244
19	Offspring metabolomic response to maternal protein restriction in a rat model of intrauterine growth restriction (IUGR). *Journal of Proteome Research*, **2011**, 10, 3292-302	5.6	48
18	Temporal and spatial changes in cell wall composition in developing grains of wheat cv. Hereward. *Planta*, **2010**, 232, 677-89	4.7	45
17	Gene and metabolite regulatory network analysis of early developing fruit tissues highlights new candidate genes for the control of tomato fruit composition and development. *Plant Physiology*, **2009**, 149, 1505-28	6.6	159
16	Remodelling of arabinoxylan in wheat (Triticum aestivum) endosperm cell walls during grain filling. *Planta*, **2009**, 229, 667-80	4.7	34
15	Metabolomics and the Detection of Unintended Effects in Genetically Modified Crops **2009**, 505-531		4

14	Polyamine metabolism and transforming growth factor-beta signaling are affected in Caco-2 cells by differentially cooked broccoli extracts. *Journal of Nutrition*, **2008**, 138, 1840-5	4.1	8
13	Fruit juice authentication by 1H NMR spectroscopy in combination with different chemometrics tools. *Analytical and Bioanalytical Chemistry*, **2008**, 390, 419-27	4.4	86
12	Evolving window zone selection method followed by independent component analysis as useful chemometric tools to discriminate between grapefruit juice, orange juice and blends. *Analytica Chimica Acta*, **2007**, 597, 203-13	6.6	26
11	Multivariate techniques and their application in nutrition: a metabolomics case study. *British Journal of Nutrition*, **2007**, 98, 1-14	3.6	70
10	Metabolomics of plasma and urine samples from Peruvian infants receiving dietary zinc supplements. *FASEB Journal*, **2007**, 21, A708	0.9	
9	Shall I compare thee to a GM potato?. *Trends in Genetics*, **2006**, 22, 525-8	8.5	15
8	Sodium dodecyl sulphate-polyacrylamide gel electrophoresis of proteins in dry-cured hams: data registration and multivariate analysis across multiple gels. *Electrophoresis*, **2006**, 27, 1288-99	3.6	11
7	Metabolite profiling of Arabidopsis thaliana (L.) plants transformed with an antisense chalcone synthase gene. *Metabolomics*, **2005**, 1, 181-198	4.7	26
6	Metabolite profiling using (1)H NMR spectroscopy for quality assessment of green tea, Camellia sinensis (L.). *Journal of Agricultural and Food Chemistry*, **2004**, 52, 692-700	5.7	173
5	Characterization and content of flavonoid glycosides in genetically modified tomato (Lycopersicon esculentum) fruits. *Journal of Agricultural and Food Chemistry*, **2003**, 51, 2438-46	5.7	145
4	Metabolite profiling of tomato (Lycopersicon esculentum) using 1H NMR spectroscopy as a tool to detect potential unintended effects following a genetic modification. *Journal of Agricultural and Food Chemistry*, **2003**, 51, 2447-56	5.7	235
3	Discrimination between orange juice and pulp wash by (1)H Nuclear Magnetic Resonance spectroscopy: identification of marker compounds. *Journal of Agricultural and Food Chemistry*, **2001**, 49, 580-8	5.7	119
2	Perturbation of the gut microbiota by antibiotics results in accelerated breast tumour growth and metabolic dysregulation		15
1	Faecal microbiota transplant from aged donor mice affects spatial learning and memory via modulating hippocampal synaptic plasticity- and neurotransmission-related proteins in young recipients		1