

Marc-Emmanuel Dumas

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.

105 papers	10,612 citations	46 h-index	103 g-index
114 ext. papers	13,339 ext. citations	12.5 avg, IF	5.83 L-index

#	Paper	IF	Citations
105	Akkermansia muciniphila and improved metabolic health during a dietary intervention in obesity: relationship with gut microbiome richness and ecology. <i>Gut</i> , 2016 , 65, 426-36	19.2	938
104	A purified membrane protein from Akkermansia muciniphila or the pasteurized bacterium improves metabolism in obese and diabetic mice. <i>Nature Medicine</i> , 2017 , 23, 107-113	50.5	896
103	Metabolic profiling reveals a contribution of gut microbiota to fatty liver phenotype in insulin-resistant mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 12511-6	11.5	854
102	Statistical total correlation spectroscopy: an exploratory approach for latent biomarker identification from metabolic 1H NMR data sets. <i>Analytical Chemistry</i> , 2005 , 77, 1282-9	7.8	729
101	Impact of the gut microbiota on inflammation, obesity, and metabolic disease. <i>Genome Medicine</i> , 2016 , 8, 42	14.4	669
100	Evaluation of the orthogonal projection on latent structure model limitations caused by chemical shift variability and improved visualization of biomarker changes in 1H NMR spectroscopic metabonomic studies. <i>Analytical Chemistry</i> , 2005 , 77, 517-26	7.8	508
99	Symbiotic bacterial metabolites regulate gastrointestinal barrier function via the xenobiotic sensor PXR and Toll-like receptor 4. <i>Immunity</i> , 2014 , 41, 296-310	32.3	470
98	A top-down systems biology view of microbiome-mammalian metabolic interactions in a mouse model. <i>Molecular Systems Biology</i> , 2007 , 3, 112	12.2	374
97	Assessment of analytical reproducibility of 1H NMR spectroscopy based metabonomics for large-scale epidemiological research: the INTERMAP Study. <i>Analytical Chemistry</i> , 2006 , 78, 2199-208	7.8	304
96	Colonization-induced host-gut microbial metabolic interaction. <i>MBio</i> , 2011 , 2, e00271-10	7.8	281
95	Molecular phenomics and metagenomics of hepatic steatosis in non-diabetic obese women. <i>Nature Medicine</i> , 2018 , 24, 1070-1080	50.5	276
94	Quantifying Diet-Induced Metabolic Changes of the Human Gut Microbiome. <i>Cell Metabolism</i> , 2015 , 22, 320-31	24.6	275
93	Colonic bacterial metabolites and human health. <i>Current Opinion in Microbiology</i> , 2013 , 16, 246-54	7.9	243
92	Metabolic profiling strategy for discovery of nutritional biomarkers: proline betaine as a marker of citrus consumption. <i>American Journal of Clinical Nutrition</i> , 2010 , 92, 436-43	7	201
91	Multiple parasite infections and their relationship to self-reported morbidity in a community of rural Côte d'Ivoire. <i>International Journal of Epidemiology</i> , 2004 , 33, 1092-102	7.8	158
90	SARS-CoV-2 Omicron-B.1.1.529 leads to widespread escape from neutralizing antibody responses.. <i>Cell</i> , 2022 ,	56.2	154
89	Objective set of criteria for optimization of sample preparation procedures for ultra-high throughput untargeted blood plasma lipid profiling by ultra performance liquid chromatography-mass spectrometry. <i>Analytical Chemistry</i> , 2014 , 86, 5766-74	7.8	153

88	Direct quantitative trait locus mapping of mammalian metabolic phenotypes in diabetic and normoglycemic rat models. <i>Nature Genetics</i> , 2007 , 39, 666-72	36.3	132
87	Metabolic phenotyping and systems biology approaches to understanding metabolic syndrome and fatty liver disease. <i>Gastroenterology</i> , 2014 , 146, 46-62	13.3	124
86	Bile acid profiling and quantification in biofluids using ultra-performance liquid chromatography tandem mass spectrometry. <i>Analytical Chemistry</i> , 2015 , 87, 9662-70	7.8	120
85	Human metabolic profiles are stably controlled by genetic and environmental variation. <i>Molecular Systems Biology</i> , 2011 , 7, 525	12.2	119
84	A genome-wide metabolic QTL analysis in Europeans implicates two loci shaped by recent positive selection. <i>PLoS Genetics</i> , 2011 , 7, e1002270	6	109
83	The evolution of partial least squares models and related chemometric approaches in metabonomics and metabolic phenotyping. <i>Journal of Chemometrics</i> , 2010 , 24, 636-649	1.6	104
82	Metabotyping of <i>Caenorhabditis elegans</i> reveals latent phenotypes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 19808-12	11.5	102
81	Statin therapy is associated with lower prevalence of gut microbiota dysbiosis. <i>Nature</i> , 2020 , 581, 310-315	50.4	100
80	Subtle metabolic and liver gene transcriptional changes underlie diet-induced fatty liver susceptibility in insulin-resistant mice. <i>Diabetologia</i> , 2007 , 50, 1867-1879	10.3	94
79	A metabolic system-wide characterisation of the pig: a model for human physiology. <i>Molecular BioSystems</i> , 2011 , 7, 2577-88		89
78	Implication of gut microbiota metabolites in cardiovascular and metabolic diseases. <i>Cellular and Molecular Life Sciences</i> , 2018 , 75, 3977-3990	10.3	84
77	A metabolomic and systems biology perspective on the brain of the fragile X syndrome mouse model. <i>Genome Research</i> , 2011 , 21, 2190-202	9.7	84
76	Phylometabonomic patterns of adaptation to high fat diet feeding in inbred mice. <i>PLoS ONE</i> , 2008 , 3, e1668	3.7	83
75	Metabolic retroconversion of trimethylamine N-oxide and the gut microbiota. <i>Microbiome</i> , 2018 , 6, 73	16.6	82
74	Metabolomics-on-a-chip and predictive systems toxicology in microfluidic bioartificial organs. <i>Analytical Chemistry</i> , 2012 , 84, 1840-8	7.8	82
73	Statistical recoupling prior to significance testing in nuclear magnetic resonance based metabonomics. <i>Analytical Chemistry</i> , 2009 , 81, 6242-51	7.8	80
72	Gut microbiota modulate the metabolism of brown adipose tissue in mice. <i>Journal of Proteome Research</i> , 2012 , 11, 620-30	5.6	73
71	Transgenomic metabolic interactions in a mouse disease model: interactions of <i>Trichinella spiralis</i> infection with dietary <i>Lactobacillus paracasei</i> supplementation. <i>Journal of Proteome Research</i> , 2006 , 5, 2185-93	5.6	72

70	Metabolomics-on-a-chip of hepatotoxicity induced by anticancer drug flutamide and its active metabolite hydroxyflutamide using HepG2/C3a microfluidic biochips. <i>Toxicological Sciences</i> , 2013 , 132, 8-20	4.4	67
69	Metabonomic assessment of physiological disruptions using 1H-13C HMBC-NMR spectroscopy combined with pattern recognition procedures performed on filtered variables. <i>Analytical Chemistry</i> , 2002 , 74, 2261-73	7.8	64
68	Pyruvate imbalance mediates metabolic reprogramming and mimics lifespan extension by dietary restriction in <i>Caenorhabditis elegans</i> . <i>Aging Cell</i> , 2011 , 10, 39-54	9.9	58
67	Microbial-Host Co-metabolites Are Prodromal Markers Predicting Phenotypic Heterogeneity in Behavior, Obesity, and Impaired Glucose Tolerance. <i>Cell Reports</i> , 2017 , 20, 136-148	10.6	57
66	Predictive toxicology using systemic biology and liver microfluidic "on chip" approaches: application to acetaminophen injury. <i>Toxicology and Applied Pharmacology</i> , 2012 , 259, 270-80	4.6	49
65	Metabolic profiling strategy of <i>Caenorhabditis elegans</i> by whole-organism nuclear magnetic resonance. <i>Journal of Proteome Research</i> , 2009 , 8, 2542-50	5.6	48
64	Intra- and inter-omic fusion of metabolic profiling data in a systems biology framework. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2010 , 104, 121-131	3.8	48
63	Diet-induced metabolic changes of the human gut microbiome: importance of short-chain fatty acids, methylamines and indoles. <i>Acta Diabetologica</i> , 2019 , 56, 493-500	3.9	47
62	Early metabolic adaptation in C57BL/6 mice resistant to high fat diet induced weight gain involves an activation of mitochondrial oxidative pathways. <i>Journal of Proteome Research</i> , 2013 , 12, 1956-68	5.6	47
61	Metabolome 2.0: quantitative genetics and network biology of metabolic phenotypes. <i>Molecular BioSystems</i> , 2012 , 8, 2494-502		46
60	Gut Microbiota Interacts with Markers of Adipose Tissue Browning, Insulin Action and Plasma Acetate in Morbid Obesity. <i>Molecular Nutrition and Food Research</i> , 2018 , 62, 1700721	5.9	46
59	Analyzing the physiological signature of anabolic steroids in cattle urine using pyrolysis/metastable atom bombardment mass spectrometry and pattern recognition. <i>Analytical Chemistry</i> , 2002 , 74, 5393-404 ⁸	7.8	41
58	Two-dimensional statistical recoupling for the identification of perturbed metabolic networks from NMR spectroscopy. <i>Journal of Proteome Research</i> , 2010 , 9, 4513-20	5.6	40
57	Characterisation of in-hospital complications associated with COVID-19 using the ISARIC WHO Clinical Characterisation Protocol UK: a prospective, multicentre cohort study. <i>Lancet, The</i> , 2021 , 398, 223-237	4.0	39
56	Homeostatic signature of anabolic steroids in cattle using 1H-13C HMBC NMR metabonomics. <i>Journal of Proteome Research</i> , 2005 , 4, 1493-502	5.6	35
55	Metabolomics-on-a-chip and metabolic flux analysis for label-free modeling of the internal metabolism of HepG2/C3A cells. <i>Molecular BioSystems</i> , 2012 , 8, 1908-20		34
54	Selection of biomarkers by a multivariate statistical processing of composite metabonomic data sets using multiple factor analysis. <i>Journal of Proteome Research</i> , 2005 , 4, 1485-92	5.6	31
53	Imidazole propionate is increased in diabetes and associated with dietary patterns and altered microbial ecology. <i>Nature Communications</i> , 2020 , 11, 5881	17.4	29

52	Metabolic Profiling and Phenotyping of Central Nervous System Diseases: Metabolites Bring Insights into Brain Dysfunctions. <i>Journal of NeuroImmune Pharmacology</i> , 2015 , 10, 402-24	6.9	28
51	The microbial-mammalian metabolic axis: beyond simple metabolism. <i>Cell Metabolism</i> , 2011 , 13, 489-90	24.6	28
50	A prenylated dsRNA sensor protects against severe COVID-19. <i>Science</i> , 2021 , 374, eabj3624	33.3	26
49	Genetic determinants of metabolism in health and disease: from biochemical genetics to genome-wide associations. <i>Genome Medicine</i> , 2012 , 4, 30	14.4	25
48	A Data Integration Multi-Omics Approach to Study Calorie Restriction-Induced Changes in Insulin Sensitivity. <i>Frontiers in Physiology</i> , 2018 , 9, 1958	4.6	24
47	mQTL.NMR: an integrated suite for genetic mapping of quantitative variations of (1)H NMR-based metabolic profiles. <i>Analytical Chemistry</i> , 2015 , 87, 4377-84	7.8	24
46	Untargeted metabolome quantitative trait locus mapping associates variation in urine glycerate to mutant glycerate kinase. <i>Journal of Proteome Research</i> , 2012 , 11, 631-42	5.6	23
45	Metabonomics in diabetes research. <i>Journal of Diabetes Science and Technology</i> , 2007 , 1, 549-57	4.1	21
44	The microbial metabolite p-Cresol induces autistic-like behaviors in mice by remodeling the gut microbiota. <i>Microbiome</i> , 2021 , 9, 157	16.6	21
43	The microbiome and its pharmacological targets: therapeutic avenues in cardiometabolic diseases. <i>Current Opinion in Pharmacology</i> , 2015 , 25, 36-44	5.1	19
42	The Natural Metabolite 4-Cresol Improves Glucose Homeostasis and Enhances ECell Function. <i>Cell Reports</i> , 2020 , 30, 2306-2320.e5	10.6	18
41	Dominant gut <i>Prevotella copri</i> in gastrectomised non-obese diabetic Goto-Kakizaki rats improves glucose homeostasis through enhanced FXR signalling. <i>Diabetologia</i> , 2020 , 63, 1223-1235	10.3	17
40	Weaning diet induces sustained metabolic phenotype shift in the pig and influences host response to <i>Bifidobacterium lactis</i> NCC2818. <i>Gut</i> , 2013 , 62, 842-51	19.2	17
39	Broad-ranging natural metabotype variation drives physiological plasticity in healthy control inbred rat strains. <i>Journal of Proteome Research</i> , 2011 , 10, 1675-89	5.6	17
38	The translational regulator FMRP controls lipid and glucose metabolism in mice and humans. <i>Molecular Metabolism</i> , 2019 , 21, 22-35	8.8	16
37	Iron status influences non-alcoholic fatty liver disease in obesity through the gut microbiome. <i>Microbiome</i> , 2021 , 9, 104	16.6	15
36	Bacterial adaptation to the gut environment favors successful colonization: microbial and metabonomic characterization of a simplified microbiota mouse model. <i>Gut Microbes</i> , 2011 , 2, 307-18	8.8	14
35	Topological analysis of metabolic networks integrating co-segregating transcriptomes and metabolomes in type 2 diabetic rat congenic series. <i>Genome Medicine</i> , 2016 , 8, 101	14.4	14

34	MWASTools: an R/bioconductor package for metabolome-wide association studies. <i>Bioinformatics</i> , 2018 , 34, 890-892	7.2	13
33	J-Resolved H NMR 1D-Projections for Large-Scale Metabolic Phenotyping Studies: Application to Blood Plasma Analysis. <i>Analytical Chemistry</i> , 2017 , 89, 11405-11412	7.8	13
32	Human and preclinical studies of the host-gut microbiome co-metabolite hippurate as a marker and mediator of metabolic health. <i>Gut</i> , 2021 , 70, 2105-2114	19.2	13
31	The microbial-mammalian metabolic axis: a critical symbiotic relationship. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2016 , 19, 250-256	3.8	12
30	Metabolic phenotyping and systems biology approaches to understanding neurological disorders. <i>F1000prime Reports</i> , 2013 , 5, 18		12
29	Untargeted Mass Spectrometry Lipidomics identifies correlation between serum sphingomyelins and plasma cholesterol. <i>Lipids in Health and Disease</i> , 2019 , 18, 38	4.4	12
28	Combinatorial, additive and dose-dependent drug-microbiome associations. <i>Nature</i> , 2021 ,	50.4	11
27	A multiplexed targeted assay for high-throughput quantitative analysis of serum methylamines by ultra performance liquid chromatography coupled to high resolution mass spectrometry. <i>Archives of Biochemistry and Biophysics</i> , 2016 , 597, 12-20	4.1	11
26	Systems Genetics of Hepatic Metabolome Reveals Octopamine as a Target for Non-Alcoholic Fatty Liver Disease Treatment. <i>Scientific Reports</i> , 2019 , 9, 3656	4.9	9
25	MetaboSignal: a network-based approach for topological analysis of metabotype regulation via metabolic and signaling pathways. <i>Bioinformatics</i> , 2017 , 33, 773-775	7.2	9
24	Circulating MicroRNAs to Predict the Risk for Metabolic Diseases in the General Population?. <i>Diabetes</i> , 2017 , 66, 565-567	0.9	7
23	Genomic regulation of type 2 diabetes endophenotypes: Contribution from genetic studies in the Goto-Kakizaki rat. <i>Biochimie</i> , 2017 , 143, 56-65	4.6	7
22	Metabolomic and microbiome profiling reveals personalized risk factors for coronary artery disease.. <i>Nature Medicine</i> , 2022 ,	50.5	7
21	2-hydroxycaproate predicts cardiovascular mortality in patients with atherosclerotic disease. <i>Atherosclerosis</i> , 2018 , 277, 179-185	3.1	6
20	pJRES Binning Algorithm (JBA): a new method to facilitate the recovery of metabolic information from pJRES 1H NMR spectra. <i>Bioinformatics</i> , 2019 , 35, 1916-1922	7.2	6
19	Are Gut Microbes Responsible for Post-dieting Weight Rebound?. <i>Cell Metabolism</i> , 2017 , 25, 6-7	24.6	5
18	The APOA1bp-SREBF-NOTCH axis is associated with reduced atherosclerosis risk in morbidly obese patients. <i>Clinical Nutrition</i> , 2020 , 39, 3408-3418	5.9	5
17	Exploring the Genetic Landscape of Metabolic Phenotypes with MetaboSignal. <i>Current Protocols in Bioinformatics</i> , 2018 , 61, 14.14.1-14.14.13	24.2	5

16	Impairment of gut microbial biotin metabolism and host biotin status in severe obesity: effect of biotin and prebiotic supplementation on improved metabolism.. <i>Gut</i> , 2022 ,	19.2	5
15	Metabolic retroconversion of trimethylamine N-oxide and the gut microbiota		4
14	Microbiome and metabolome features of the cardiometabolic disease spectrum.. <i>Nature Medicine</i> , 2022 ,	50.5	4
13	The microbial metabolite p-Cresol induces autistic-like behaviors in mice by remodeling the gut microbiota		3
12	Is the way weRe dieting wrong?. <i>Genome Medicine</i> , 2016 , 8, 7	14.4	2
11	Signature biologique du dopage : un avenir pour la dtection ?. <i>Science and Sports</i> , 2005 , 20, 222-225	0.8	2
10	Microbiome Inhibition of IRAK-4 by Trimethylamine Mediates Metabolic and Immune Benefits in High-Fat-Diet-induced Insulin Resistance		2
9	Accuracy of citrulline, I-FABP and D-lactate in the diagnosis of acute mesenteric ischemia. <i>Scientific Reports</i> , 2021 , 11, 18929	4.9	2
8	The Microbial Metabolite 4-Cresol Improves Glucose Homeostasis and Enhances ECell Function		1
7	Microbiome Determinants and Physiological Effects of the Benzoate-Hippurate Microbial-Host Co-Metabolic Pathway		1
6	CHAPTER 12:Advances in Computational Analysis of Metabolomic NMR Data. <i>New Developments in NMR</i> , 2018 , 310-323	0.9	1
5	A targeted ultra performance liquid chromatography - Tandem mass spectrometric assay for tyrosine and metabolites in urine and plasma: Application to the effects of antibiotics on mice. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2021 , 1164, 122511	3.2	1
4	Mapping Metabolomic Quantitative Trait Loci (mQTL): A Link Between Metabolome-Wide Association Studies and Systems Biology 2012 , 233-254		1
3	Implementation of corticosteroids in treatment of COVID-19 in the ISARIC WHO Clinical Characterisation Protocol UK: prospective, cohort study.. <i>The Lancet Digital Health</i> , 2022 , 4, e220-e234	14.4	1
2	ITCH E3 Ubiquitin Ligase downregulation compromises hepatic degradation of branched-chain amino acids.. <i>Molecular Metabolism</i> , 2022 , 101454	8.8	0
1	An integrated workflow for enhanced taxonomic and functional coverage of the mouse fecal metaproteome. <i>Gut Microbes</i> , 2021 , 13, 1994836	8.8	0