Borja Sanchez

List of Publications by Year in Descending Order

140 papers	6,911 citations	44 h-index	80 g-index
144 ext. papers	8,567 ext. citations	5.2 avg, IF	6 L-index

#	Paper	IF	Citations
140	Unravelling the immunomodulatory role of apple phenolic rich extracts on human THP-1- derived macrophages using multiplatform metabolomics.. *Food Research International*, **2022**, 155, 111037	7	
139	Computational Approach to the Systematic Prediction of Glycolytic Abilities: Looking Into Human Microbiota. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, **2021**, 18, 2302-2313	3	1
138	Precision modification of the human gut microbiota targeting surface-associated proteins. *Scientific Reports*, **2021**, 11, 1270	4.9	1
137	Metabolomics Insights of the Immunomodulatory Activities of Phlorizin and Phloretin on Human THP-1 Macrophages. *Molecules*, **2021**, 26,	4.8	3
136	gen. nov., sp. nov., a bile-resistant bacterium from human bile with autolytic behavior. *International Journal of Systematic and Evolutionary Microbiology*, **2021**, 71,	2.2	2
135	Determination of Bile Salt Hydrolase Activity in Bifidobacteria. *Methods in Molecular Biology*, **2021**, 2278, 149-155	1.4	1
134	Exopolysaccharide Producing subsp. Strains Modify the Intestinal Microbiota and the Plasmatic Cytokine Levels of BALB/c Mice According to the Type of Polymer Synthesized. *Frontiers in Microbiology*, **2020**, 11, 601233	5.7	1
133	Revisiting the Metabolic Capabilities of susbp. and subsp. from a Glycoside Hydrolase Perspective. *Microorganisms*, **2020**, 8,	4.9	3
132	In silico and functional analyses of immunomodulatory peptides encrypted in the human gut metaproteome. *Journal of Functional Foods*, **2020**, 70, 103969	5.1	2
131	Molecules Produced by Probiotics and Intestinal Microorganisms with Immunomodulatory Activity. *Nutrients*, **2020**, 12,	6.7	39
130	Role of lactic acid bacteria in fermented vegetables. *Grasas Y Aceites*, **2020**, 71, 358	1.3	6
129	The extracellular proteins of Lactobacillus acidophilus DSM 20079T display anti-inflammatory effect in both in piglets, healthy human donors and Crohn Disease patients. *Journal of Functional Foods*, **2020**, 64, 103660	5.1	2
128	Cell wall hydrolase as a surface-associated protein target for the specific detection of Lactobacillus rhamnosus using flow cytometry. *Innovative Food Science and Emerging Technologies*, **2020**, 59, 102240	6.8	2
127	Proteomic profile of extracellular vesicles released by Lactiplantibacillus plantarum BGAN8 and their internalization by non-polarized HT29 cell line. *Scientific Reports*, **2020**, 10, 21829	4.9	9
126	In silico prediction reveals the existence of potential bioactive neuropeptides produced by the human gut microbiota. *Food Research International*, **2019**, 119, 221-226	7	6
125	Filling the gap between collection, transport and storage of the human gut microbiota. *Scientific Reports*, **2019**, 9, 8327	4.9	13
124	Metataxonomic analysis of the bacterial diversity in table olive dressing components. *Food Control*, **2019**, 105, 190-197	6.2	5

123	DEWE: A novel tool for executing differential expression RNA-Seq workflows in biomedical research. *Computers in Biology and Medicine*, **2019**, 107, 197-205	7	6
122	Intestinal Bacteria Interplay With Bile and Cholesterol Metabolism: Implications on Host Physiology. *Frontiers in Physiology*, **2019**, 10, 185	4.6	96
121	Computational prediction of the bioactivity potential of proteomes based on expert knowledge. *Journal of Biomedical Informatics*, **2019**, 91, 103121	10.2	1
120	Approach for Unveiling the Glycoside Hydrolase Activities in Through a Systematic and Integrative Large-Scale Analysis. *Frontiers in Microbiology*, **2019**, 10, 517	5.7	3
119	The human gallbladder microbiome is related to the physiological state and the biliary metabolic profile. *Microbiome*, **2019**, 7, 100	16.6	42
118	Immunomodulatory Effect of Gut Microbiota-Derived Bioactive Peptides on Human Immune System from Healthy Controls and Patients with Inflammatory Bowel Disease. *Nutrients*, **2019**, 11,	6.7	15
117	Peptides encrypted in the human intestinal microbial-exoproteome as novel biomarkers and immunomodulatory compounds in the gastrointestinal tract. *Journal of Functional Foods*, **2019**, 52, 459-468	5.1	8
116	Resources and tools for the high-throughput, multi-omic study of intestinal microbiota. *Briefings in Bioinformatics*, **2019**, 20, 1032-1056	13.4	8
115	Bile acid-microbiota crosstalk in gastrointestinal inflammation and carcinogenesis: a role for bifidobacteria and lactobacilli?. *Nature Reviews Gastroenterology and Hepatology*, **2018**, 15, 205	24.2	39
114	Biological Activities and Applications of Bifidobacterial Exopolysaccharides: From the Bacteria and Host Perspective **2018**, 177-193		4
113	Evidence of the In Vitro and In Vivo Immunological Relevance of Bifidobacteria **2018**, 295-305		
112	Bioactive compounds from regular diet and faecal microbial metabolites. *European Journal of Nutrition*, **2018**, 57, 487-497	5.2	11
111	Whole fractions from probiotic bacteria induce in vitro Th17 responses in human peripheral blood mononuclear cells. *Journal of Functional Foods*, **2018**, 48, 367-373	5.1	2
110	A Metabolomics Approach Reveals Immunomodulatory Effects of Proteinaceous Molecules Derived From Gut Bacteria Over Human Peripheral Blood Mononuclear Cells. *Frontiers in Microbiology*, **2018**, 9, 2701	5.7	9
109	BlasterJS: A novel interactive JavaScript visualisation component for BLAST alignment results. *PLoS ONE*, **2018**, 13, e0205286	3.7	8
108	The role of gut microbiota in lupus: what we know in 2018?. *Expert Review of Clinical Immunology*, **2018**, 14, 787-792	5.1	7
107	Bifidobacteria and Their Health-Promoting Effects **2018**, 73-98		11
106	Molecular and technological insights into the aerotolerance of anaerobic probiotics: examples from bifidobacteria. *Current Opinion in Food Science*, **2017**, 14, 110-115	9.8	11

105	New trends in dairy microbiology **2017**, 299-323		0
104	Bifidobacteria and Their Health-Promoting Effects. *Microbiology Spectrum*, **2017**, 5,	8.9	126
103	MAHMI database: a comprehensive MetaHit-based resource for the study of the mechanism of action of the human microbiota. *Database: the Journal of Biological Databases and Curation*, **2017**, 2017,	5	24
102	P4P: a peptidome-based strain-level genome comparison web tool. *Nucleic Acids Research*, **2017**, 45, W265-W269	2017	0
101	Probiotics, gut microbiota, and their influence on host health and disease. *Molecular Nutrition and Food Research*, **2017**, 61, 1600240	5.9	442
100	Intestinal Dysbiosis Is Associated with Altered Short-Chain Fatty Acids and Serum-Free Fatty Acids in Systemic Lupus Erythematosus. *Frontiers in Immunology*, **2017**, 8, 23	8.4	53
99	Screening of the Human Gut Metaproteome Identifies Th17-Promoting Peptides Encrypted in Proteins of Commensal Bacteria. *Frontiers in Microbiology*, **2017**, 8, 1726	5.7	14
98	Characterization and Exploitation of CRISPR Loci in. *Frontiers in Microbiology*, **2017**, 8, 1851	5.7	35
97	Bifidobacteria and Their Molecular Communication with the Immune System. *Frontiers in Microbiology*, **2017**, 8, 2345	5.7	125
96	Microbiota and oxidant-antioxidant balance in systemic lupus erythematosus. *Nutricion Hospitalaria* , **2017**, 34, 934-941	1	6
95	Phenolic compounds from red wine and coffee are associated with specific intestinal microorganisms in allergic subjects. *Food and Function*, **2016**, 7, 104-9	6.1	23
94	A peptidome-based phylogeny pipeline reveals differential peptides at the strain level within Bifidobacterium animalis subsp. lactis. *Food Microbiology*, **2016**, 60, 137-41	6	3
93	Th17 responses and natural IgM antibodies are related to gut microbiota composition in systemic lupus erythematosus patients. *Scientific Reports*, **2016**, 6, 24072	4.9	123
92	Intestinal dysbiosis in systemic lupus erythematosus: cause or consequence?. *Current Opinion in Rheumatology*, **2016**, 28, 515-22	5.3	32
91	Tackling probiotic and gut microbiota functionality through proteomics. *Journal of Proteomics*, **2016**, 147, 28-39	3.9	33
90	A proteomic approach towards understanding the cross talk between Bacteroides fragilis and Bifidobacterium longum in coculture. *Canadian Journal of Microbiology*, **2016**, 62, 623-8	3.2	5
89	Improving Phylogeny Reconstruction at the Strain Level Using Peptidome Datasets. *PLoS Computational Biology*, **2016**, 12, e1005271	5	3
88	Allergic Patients with Long-Term Asthma Display Low Levels of Bifidobacterium adolescentis. *PLoS ONE*, **2016**, 11, e0147809	3.7	62

87	Proteinaceous Molecules Mediating Bifidobacterium-Host Interactions. *Frontiers in Microbiology*, **2016**, 7, 1193	5.7	26
86	Impact of Prematurity and Perinatal Antibiotics on the Developing Intestinal Microbiota: A Functional Inference Study. *International Journal of Molecular Sciences*, **2016**, 17,	6.3	81
85	From amino acid sequence to bioactivity: The biomedical potential of antitumor peptides. *Protein Science*, **2016**, 25, 1084-95	6.3	42
84	Identification and molecular characterization of oat peptides implicated on coeliac immune response. *Food and Nutrition Research*, **2016**, 60, 30324	3.1	26
83	Evaluation of genetic diversity among strains of the human gut commensal Bifidobacterium adolescentis. *Scientific Reports*, **2016**, 6, 23971	4.9	70
82	Intestinal microbiota development in preterm neonates and effect of perinatal antibiotics. *Journal of Pediatrics*, **2015**, 166, 538-44	3.6	250
81	Ranking the impact of human health disorders on gut metabolism: systemic lupus erythematosus and obesity as study cases. *Scientific Reports*, **2015**, 5, 8310	4.9	56
80	Evidence for cholesterol-lowering activity by Bifidobacterium bifidum PRL2010 through gut microbiota modulation. *Applied Microbiology and Biotechnology*, **2015**, 99, 6813-29	5.7	41
79	A single mutation in the gene responsible for the mucoid phenotype of Bifidobacterium animalis subsp. lactis confers surface and functional characteristics. *Applied and Environmental Microbiology*, **2015**, 81, 7960-8	4.8	33
78	Insights from genomes of representatives of the human gut commensal Bifidobacterium bifidum. *Environmental Microbiology*, **2015**, 17, 2515-31	5.2	61
77	Bifidobacteria exhibit social behavior through carbohydrate resource sharing in the gut. *Scientific Reports*, **2015**, 5, 15782	4.9	168
76	Application of density gradient for the isolation of the fecal microbial stool component and the potential use thereof. *Scientific Reports*, **2015**, 5, 16807	4.9	27
75	Association of polyphenols from oranges and apples with specific intestinal microorganisms in systemic lupus erythematosus patients. *Nutrients*, **2015**, 7, 1301-17	6.7	47
74	Interaction of Intestinal Microorganisms with the Human Host in the Framework of Autoimmune Diseases. *Frontiers in Immunology*, **2015**, 6, 594	8.4	21
73	Different metabolic features of Bacteroides fragilis growing in the presence of glucose and exopolysaccharides of bifidobacteria. *Frontiers in Microbiology*, **2015**, 6, 825	5.7	32
72	Molecular Players Involved in the Interaction Between Beneficial Bacteria and the Immune System. *Frontiers in Microbiology*, **2015**, 6, 1285	5.7	60
71	The effects of Bifidobacterium breve on immune mediators and proteome of HT29 cells monolayers. *BioMed Research International*, **2015**, 2015, 479140	3	19
70	Human colon-derived soluble factors modulate gut microbiota composition. *Frontiers in Oncology*, **2015**, 5, 86	5.3	3

69	Effect of iron on the probiotic properties of the vaginal isolate Lactobacillus jensenii CECT 4306. *Microbiology (United Kingdom)*, **2015**, 161, 708-18	2.9	13
68	Genomic overview and biological functions of exopolysaccharide biosynthesis in Bifidobacterium spp. *Applied and Environmental Microbiology*, **2014**, 80, 9-18	4.8	126
67	Assessment of stress tolerance acquisition in the heat-tolerant derivative strains of Bifidobacterium animalis subsp. lactis BB-12 and Lactobacillus rhamnosus GG. *Journal of Applied Microbiology*, **2014**, 117, 239-48	4.7	15
66	Genomic encyclopedia of type strains of the genus Bifidobacterium. *Applied and Environmental Microbiology*, **2014**, 80, 6290-302	4.8	162
65	Extracellular molecular effectors mediating probiotic attributes. *FEMS Microbiology Letters*, **2014**, 359, 1-11	2.9	33
64	Characterization of the bile and gall bladder microbiota of healthy pigs. *MicrobiologyOpen*, **2014**, 3, 937-49	3.4	26
63	Intestinal dysbiosis associated with systemic lupus erythematosus. *MBio*, **2014**, 5, e01548-14	7.8	309
62	Association of levels of antibodies from patients with inflammatory bowel disease with extracellular proteins of food and probiotic bacteria. *BioMed Research International*, **2014**, 2014, 351204	3	15
61	Altered human gut dendritic cell properties in ulcerative colitis are reversed by Lactobacillus plantarum extracellular encrypted peptide STp. *Molecular Nutrition and Food Research*, **2014**, 58, 1132-43	5.9	49
60	Role of sortase-dependent pili of Bifidobacterium bifidum PRL2010 in modulating bacterium-host interactions. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 11151-6	11.5	172
59	Omics for the study of probiotic microorganisms. *Food Research International*, **2013**, 54, 1061-1071	7	26
58	Catabolism of glucose and lactose in Bifidobacterium animalis subsp. lactis, studied by 13C Nuclear Magnetic Resonance. *Applied and Environmental Microbiology*, **2013**, 79, 7628-38	4.8	29
57	Adaptation of bifidobacteria to the gastrointestinal tract and functional consequences. *Pharmacological Research*, **2013**, 69, 127-36	10.2	43
56	Factors involved in the colonization and survival of bifidobacteria in the gastrointestinal tract. *FEMS Microbiology Letters*, **2013**, 340, 1-10	2.9	46
55	Co-culture affects protein profile and heat tolerance of Lactobacillus delbrueckii subsp. lactis and Bifidobacterium longum. *Food Research International*, **2013**, 54, 1080-1083	7	4
54	Antibiotic resistance in probiotic bacteria. *Frontiers in Microbiology*, **2013**, 4, 202	5.7	273
53	Bile resistance mechanisms in Lactobacillus and Bifidobacterium. *Frontiers in Microbiology*, **2013**, 4, 396	5.7	242
52	An extracellular Serine/Threonine-rich protein from Lactobacillus plantarum NCIMB 8826 is a novel aggregation-promoting factor with affinity to mucin. *Applied and Environmental Microbiology*, **2013**, 79, 6059-66	4.8	23

51	Insights into the ropy phenotype of the exopolysaccharide-producing strain Bifidobacterium animalis subsp. lactis A1dOxR. *Applied and Environmental Microbiology*, **2013**, 79, 3870-4	4.8	18
50	Assessing the fecal microbiota: an optimized ion torrent 16S rRNA gene-based analysis protocol. *PLoS ONE*, **2013**, 8, e68739	3.7	205
49	Genome sequence of the immunomodulatory strain Bifidobacterium bifidum LMG 13195. *Journal of Bacteriology*, **2012**, 194, 6997	3.5	2
48	Treg-inducing membrane vesicles from Bifidobacterium bifidum LMG13195 as potential adjuvants in immunotherapy. *Vaccine*, **2012**, 30, 825-9	4.1	47
47	Toward improving technological and functional properties of probiotics in foods. *Trends in Food Science and Technology*, **2012**, 26, 56-63	15.3	34
46	Microbiota/host crosstalk biomarkers: regulatory response of human intestinal dendritic cells exposed to Lactobacillus extracellular encrypted peptide. *PLoS ONE*, **2012**, 7, e36262	3.7	63
45	Selection of a Bifidobacterium animalis subsp. lactis strain with a decreased ability to produce acetic acid. *Applied and Environmental Microbiology*, **2012**, 78, 3338-42	4.8	28
44	Extracellular proteins from Lactobacillus plantarum BMCM12 prevent adhesion of enteropathogens to mucin. *Current Microbiology*, **2012**, 64, 592-6	2.4	12
43	Characterization of the adherence properties of human Lactobacilli strains to be used as vaginal probiotics. *FEMS Microbiology Letters*, **2012**, 328, 166-73	2.9	29
42	Enhancing probiotic stability in industrial processes. *Microbial Ecology in Health and Disease*, **2012**, 23,		17
41	Genome sequence of the Antarctic psychrophile bacterium Planococcus antarcticus DSM 14505. *Journal of Bacteriology*, **2012**, 194, 4465	3.5	11
40	Molecular clues to understand the aerotolerance phenotype of Bifidobacterium animalis subsp. lactis. *Applied and Environmental Microbiology*, **2012**, 78, 644-50	4.8	31
39	Genome sequence of Parascardovia denticolens IPLA 20019, isolated from human breast milk. *Journal of Bacteriology*, **2012**, 194, 4776-7	3.5	9
38	Role of extracellular transaldolase from Bifidobacterium bifidum in mucin adhesion and aggregation. *Applied and Environmental Microbiology*, **2012**, 78, 3992-8	4.8	76
37	Interaction of Bifidobacterium bifidum LMG13195 with HT29 cells influences regulatory-T-cell-associated chemokine receptor expression. *Applied and Environmental Microbiology*, **2012**, 78, 2850-7	4.8	46
36	Bifidobacterium asteroides PRL2011 genome analysis reveals clues for colonization of the insect gut. *PLoS ONE*, **2012**, 7, e44229	3.7	91
35	A flagellin-producing Lactococcus strain: interactions with mucin and enteropathogens. *FEMS Microbiology Letters*, **2011**, 318, 101-7	2.9	19
34	Human cecum content modulates production of extracellular proteins by food and probiotic bacteria. *FEMS Microbiology Letters*, **2011**, 324, 189-94	2.9	8

33	Evaluation of the functional potential of Weissella and Lactobacillus isolates obtained from Nigerian traditional fermented foods and cow's intestine. *International Journal of Food Microbiology* , **2011**, 147, 97-104	5.8	87
32	How do bifidobacteria counteract environmental challenges? Mechanisms involved and physiological consequences. *Genes and Nutrition*, **2011**, 6, 307-18	4.3	76
31	Lactobacillus plantarum extracellular chitin-binding protein and its role in the interaction between chitin, Caco-2 cells, and mucin. *Applied and Environmental Microbiology*, **2011**, 77, 1123-6	4.8	31
30	Genome analysis of Bifidobacterium bifidum PRL2010 reveals metabolic pathways for host-derived glycan foraging. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 19514-9	11.5	266
29	Extracellular proteins secreted by probiotic bacteria as mediators of effects that promote mucosa-bacteria interactions. *Microbiology (United Kingdom)*, **2010**, 156, 3232-3242	2.9	132
28	Technological and probiotic selection criteria of a bile-adapted Bifidobacterium animalis subsp. lactis strain. *International Dairy Journal*, **2010**, 20, 800-805	3.5	41
27	Bacterial and eukaryotic phosphoketolases: phylogeny, distribution and evolution. *Journal of Molecular Microbiology and Biotechnology*, **2010**, 18, 37-51	0.9	28
26	Inside the adaptation process of Lactobacillus delbrueckii subsp. lactis to bile. *International Journal of Food Microbiology*, **2010**, 142, 132-41	5.8	62
25	A proteomic approach to cold acclimation of Staphylococcus aureus CECT 976 grown at room and human body temperatures. *International Journal of Food Microbiology*, **2010**, 144, 160-8	5.8	15
24	Adhesive properties, extracellular protein production, and metabolism in the Lactobacillus rhamnosus GG strain when grown in the presence of mucin. *Journal of Microbiology and Biotechnology*, **2010**, 20, 978-84	3.3	18
23	The cell-envelope proteome of Bifidobacterium longum in an in vitro bile environment. *Microbiology (United Kingdom)*, **2009**, 155, 957-967	2.9	67
22	Identification of surface proteins involved in the adhesion of a probiotic Bacillus cereus strain to mucin and fibronectin. *Microbiology (United Kingdom)*, **2009**, 155, 1708-1716	2.9	65
21	Coculture of Bifidobacterium longum and Bifidobacterium breve alters their protein expression profiles and enzymatic activities. *International Journal of Food Microbiology*, **2009**, 133, 148-53	5.8	35
20	Some immunomodulatory effects of probiotic bacteria might be due to porcine neutrophil elastase inhibitor, a serpin present in MRS broth. *Immunology Letters*, **2009**, 122, 99-100	4.1	4
19	A method for the identification of proteins secreted by lactic acid bacteria grown in complex media. *FEMS Microbiology Letters*, **2009**, 295, 226-9	2.9	20
18	Probiotic fermented milks: Present and future. *International Journal of Dairy Technology*, **2009**, 62, 472-483	3.7	44
17	Identification of novel proteins secreted by Lactobacillus rhamnosus GG grown in de Mann-Rogosa-Sharpe broth. *Letters in Applied Microbiology*, **2009**, 48, 618-22	2.9	39
16	Identification of surface-associated proteins in the probiotic bacterium Lactobacillus rhamnosus GG. *International Dairy Journal*, **2009**, 19, 85-88	3.5	26

15	Identification of novel proteins secreted by Lactobacillus plantarum that bind to mucin and fibronectin. *Journal of Molecular Microbiology and Biotechnology*, **2009**, 17, 158-62	0.9	38
14	A preliminary analysis of Bifidobacterium longum exported proteins by two-dimensional electrophoresis. *Journal of Molecular Microbiology and Biotechnology*, **2008**, 14, 74-9	0.9	29
13	Proteomics of stress response in Bifidobacterium. *Frontiers in Bioscience - Landmark*, **2008**, 13, 6905-19	2.8	38
12	Exported proteins in probiotic bacteria: adhesion to intestinal surfaces, host immunomodulation and molecular cross-talking with the host. *FEMS Immunology and Medical Microbiology*, **2008**, 54, 1-17		101
11	Cell envelope changes in Bifidobacterium animalis ssp. lactis as a response to bile. *FEMS Microbiology Letters*, **2007**, 274, 316-22	2.9	68
10	Low-pH adaptation and the acid tolerance response of Bifidobacterium longum biotype longum. *Applied and Environmental Microbiology*, **2007**, 73, 6450-9	4.8	149
9	Adaptation and response of Bifidobacterium animalis subsp. lactis to bile: a proteomic and physiological approach. *Applied and Environmental Microbiology*, **2007**, 73, 6757-67	4.8	101
8	The F1F0-ATPase of Bifidobacterium animalis is involved in bile tolerance. *Environmental Microbiology*, **2006**, 8, 1825-33	5.2	73
7	Proteomic analysis of global changes in protein expression during bile salt exposure of Bifidobacterium longum NCIMB 8809. *Journal of Bacteriology*, **2005**, 187, 5799-808	3.5	155
6	Effect of acquired resistance to bile salts on enzymatic activities involved in the utilisation of carbohydrates by bifidobacteria. An overview. *Dairy Science and Technology*, **2005**, 85, 113-123		7
5	Effect of the adaptation to high bile salts concentrations on glycosidic activity, survival at low PH and cross-resistance to bile salts in Bifidobacterium. *International Journal of Food Microbiology*, **2004**, 94, 79-86	5.8	102
4	Acquired resistance to bile increases fructose-6-phosphate phosphoketolase activity in Bifidobacterium. *FEMS Microbiology Letters*, **2004**, 235, 35-41	2.9	10
3	Characterisation of a Bifidobacterium strain with acquired resistance to cholate--a preliminary study. *International Journal of Food Microbiology*, **2003**, 82, 191-8	5.8	59
2	Release of potential pro-inflammatory peptides from SARS-CoV-2 spike glycoproteins in neutrophil-extracellular traps		2
1	Improving Probiotics for Functional Foods351-368		1