

# Nuria Salazar

## List of Publications by Citations

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108  
papers

6,831  
citations

48  
h-index

81  
g-index

111  
ext. papers

8,409  
ext. citations

5.5  
avg, IF

5.94  
L-index

#	Paper	IF	Citations
108	Intestinal Short Chain Fatty Acids and their Link with Diet and Human Health. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 185	5.7	934
107	Intestinal microbiota in health and disease: role of bifidobacteria in gut homeostasis. <i>World Journal of Gastroenterology</i> , <b>2014</b> , 20, 15163-76	5.6	282
106	Establishment and development of intestinal microbiota in preterm neonates. <i>FEMS Microbiology Ecology</i> , <b>2012</b> , 79, 763-72	4.3	268
105	Intestinal microbiota development in preterm neonates and effect of perinatal antibiotics. <i>Journal of Pediatrics</i> , <b>2015</b> , 166, 538-44	3.6	250
104	Exopolysaccharides produced by probiotic strains modify the adhesion of probiotics and enteropathogens to human intestinal mucus. <i>Journal of Food Protection</i> , <b>2006</b> , 69, 2011-5	2.5	169
103	Enhanced butyrate formation by cross-feeding between <i>Faecalibacterium prausnitzii</i> and <i>Bifidobacterium adolescentis</i> . <i>FEMS Microbiology Letters</i> , <b>2015</b> , 362,	2.9	167
102	Healthspan and lifespan extension by fecal microbiota transplantation into progeroid mice. <i>Nature Medicine</i> , <b>2019</b> , 25, 1234-1242	50.5	164
101	Inulin-type fructans modulate intestinal <i>Bifidobacterium</i> species populations and decrease fecal short-chain fatty acids in obese women. <i>Clinical Nutrition</i> , <b>2015</b> , 34, 501-7	5.9	162
100	Viability and diversity of probiotic <i>Lactobacillus</i> and <i>Bifidobacterium</i> populations included in commercial fermented milks. <i>Food Research International</i> , <b>2004</b> , 37, 839-850	7	158
99	Exopolysaccharides produced by intestinal <i>Bifidobacterium</i> strains act as fermentable substrates for human intestinal bacteria. <i>Applied and Environmental Microbiology</i> , <b>2008</b> , 74, 4737-45	4.8	153
98	The relationship between phenolic compounds from diet and microbiota: impact on human health. <i>Food and Function</i> , <b>2015</b> , 6, 2424-39	6.1	140
97	Immune Modulation Capability of Exopolysaccharides Synthesised by Lactic Acid Bacteria and <i>Bifidobacteria</i> . <i>Probiotics and Antimicrobial Proteins</i> , <b>2012</b> , 4, 227-37	5.5	122
96	Nutrition and the gut microbiome in the elderly. <i>Gut Microbes</i> , <b>2017</b> , 8, 82-97	8.8	121
95	Exopolysaccharides produced by <i>Bifidobacterium longum</i> IPLA E44 and <i>Bifidobacterium animalis</i> subsp. <i>lactis</i> IPLA R1 modify the composition and metabolic activity of human faecal microbiota in pH-controlled batch cultures. <i>International Journal of Food Microbiology</i> , <b>2009</b> , 135, 260-7	5.8	118
94	Impact of intrapartum antimicrobial prophylaxis upon the intestinal microbiota and the prevalence of antibiotic resistance genes in vaginally delivered full-term neonates. <i>Microbiome</i> , <b>2017</b> , 5, 93	16.6	110
93	Mycelium differentiation and antibiotic production in submerged cultures of <i>Streptomyces coelicolor</i> . <i>Applied and Environmental Microbiology</i> , <b>2008</b> , 74, 3877-86	4.8	109
92	Molecular characterization of intrinsic and acquired antibiotic resistance in lactic acid bacteria and bifidobacteria. <i>Journal of Molecular Microbiology and Biotechnology</i> , <b>2008</b> , 14, 6-15	0.9	107

91	Assessment on the fermentability of xylooligosaccharides from rice husks by probiotic bacteria. <i>Journal of Agricultural and Food Chemistry</i> , <b>2008</b> , 56, 7482-7	5.7	103
90	Effect of the adaptation to high bile salts concentrations on glycosidic activity, survival at low PH and cross-resistance to bile salts in Bifidobacterium. <i>International Journal of Food Microbiology</i> , <b>2004</b> , 94, 79-86	5.8	102
89	Exopolysaccharides Produced by Lactic Acid Bacteria and Bifidobacteria as Fermentable Substrates by the Intestinal Microbiota. <i>Critical Reviews in Food Science and Nutrition</i> , <b>2016</b> , 56, 1440-53	11.5	97
88	The human intestinal microbiome at extreme ages of life. Dietary intervention as a way to counteract alterations. <i>Frontiers in Genetics</i> , <b>2014</b> , 5, 406	4.5	96
87	Production of exopolysaccharides by Lactobacillus and Bifidobacterium strains of human origin, and metabolic activity of the producing bacteria in milk. <i>Journal of Dairy Science</i> , <b>2009</b> , 92, 4158-68	4	94
86	Shaping the Metabolism of Intestinal Population through Diet to Improve Human Health. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 376	5.7	93
85	Characterization and in vitro properties of potentially probiotic Bifidobacterium strains isolated from breast-milk. <i>International Journal of Food Microbiology</i> , <b>2011</b> , 149, 28-36	5.8	92
84	Exopolysaccharide-producing Bifidobacterium strains elicit different in vitro responses upon interaction with human cells. <i>Food Research International</i> , <b>2012</b> , 46, 99-107	7	86
83	Exopolysaccharides produced by Lactobacillus and Bifidobacterium strains abrogate in vitro the cytotoxic effect of bacterial toxins on eukaryotic cells. <i>Journal of Applied Microbiology</i> , <b>2010</b> , 109, 2079-86	4.7	84
82	Resistant starch can improve insulin sensitivity independently of the gut microbiota. <i>Microbiome</i> , <b>2017</b> , 5, 12	16.6	82
81	Bile affects the synthesis of exopolysaccharides by Bifidobacterium animalis. <i>Applied and Environmental Microbiology</i> , <b>2009</b> , 75, 1204-7	4.8	81
80	Impact of Prematurity and Perinatal Antibiotics on the Developing Intestinal Microbiota: A Functional Inference Study. <i>International Journal of Molecular Sciences</i> , <b>2016</b> , 17,	6.3	81
79	Impact on human health of microorganisms present in fermented dairy products: an overview. <i>BioMed Research International</i> , <b>2015</b> , 2015, 412714	3	78
78	Non Digestible Oligosaccharides Modulate the Gut Microbiota to Control the Development of Leukemia and Associated Cachexia in Mice. <i>PLoS ONE</i> , <b>2015</b> , 10, e0131009	3.7	77
77	How do bifidobacteria counteract environmental challenges? Mechanisms involved and physiological consequences. <i>Genes and Nutrition</i> , <b>2011</b> , 6, 307-18	4.3	76
76	Modulation of the gut microbiota by nutrients with prebiotic and probiotic properties. <i>Advances in Nutrition</i> , <b>2014</b> , 5, 624S-633S	10	68
75	Screening of exopolysaccharide-producing Lactobacillus and Bifidobacterium strains isolated from the human intestinal microbiota. <i>Applied and Environmental Microbiology</i> , <b>2007</b> , 73, 4385-8	4.8	68
74	Interactions between Bifidobacterium and Bacteroides species in cofermentations are affected by carbon sources, including exopolysaccharides produced by bifidobacteria. <i>Applied and Environmental Microbiology</i> , <b>2013</b> , 79, 7518-24	4.8	66

73	Pilot study of diet and microbiota: interactive associations of fibers and polyphenols with human intestinal bacteria. <i>Journal of Agricultural and Food Chemistry</i> , <b>2014</b> , 62, 5330-6	5.7	62
72	Genetic basis of tetracycline resistance in <i>Bifidobacterium animalis</i> subsp. <i>lactis</i> . <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 3364-9	4.8	57
71	Competitive exclusion of enteropathogens from human intestinal mucus by <i>Bifidobacterium</i> strains with acquired resistance to bile--a preliminary study. <i>International Journal of Food Microbiology</i> , <b>2007</b> , 113, 228-32	5.8	56
70	Age-Associated Changes in Gut Microbiota and Dietary Components Related with the Immune System in Adulthood and Old Age: A Cross-Sectional Study. <i>Nutrients</i> , <b>2019</b> , 11,	6.7	55
69	Safety and intestinal microbiota modulation by the exopolysaccharide-producing strains <i>Bifidobacterium animalis</i> IPLA R1 and <i>Bifidobacterium longum</i> IPLA E44 orally administered to Wistar rats. <i>International Journal of Food Microbiology</i> , <b>2011</b> , 144, 342-51	5.8	55
68	Early microbiota, antibiotics and health. <i>Cellular and Molecular Life Sciences</i> , <b>2018</b> , 75, 83-91	10.3	54
67	Fiber from a regular diet is directly associated with fecal short-chain fatty acid concentrations in the elderly. <i>Nutrition Research</i> , <b>2013</b> , 33, 811-6	4	54
66	Intestinal Dysbiosis Is Associated with Altered Short-Chain Fatty Acids and Serum-Free Fatty Acids in Systemic Lupus Erythematosus. <i>Frontiers in Immunology</i> , <b>2017</b> , 8, 23	8.4	53
65	Ability of <i>Bifidobacterium</i> strains with acquired resistance to bile to adhere to human intestinal mucus. <i>International Journal of Food Microbiology</i> , <b>2005</b> , 101, 341-6	5.8	53
64	A bile salt-resistant derivative of <i>Bifidobacterium animalis</i> has an altered fermentation pattern when grown on glucose and maltose. <i>Applied and Environmental Microbiology</i> , <b>2005</b> , 71, 6564-70	4.8	53
63	Microbial targets for the development of functional foods accordingly with nutritional and immune parameters altered in the elderly. <i>Journal of the American College of Nutrition</i> , <b>2013</b> , 32, 399-406	3.5	52
62	An Overview on Fecal Branched Short-Chain Fatty Acids Along Human Life and as Related With Body Mass Index: Associated Dietary and Anthropometric Factors. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 973	5.7	50
61	Deep 16S rRNA metagenomics and quantitative PCR analyses of the premature infant fecal microbiota. <i>Anaerobe</i> , <b>2012</b> , 18, 378-80	2.8	50
60	Facultative to strict anaerobes ratio in the preterm infant microbiota: a target for intervention?. <i>Gut Microbes</i> , <b>2012</b> , 3, 583-8	8.8	47
59	Bifidogenic effect and stimulation of short chain fatty acid production in human faecal slurry cultures by oligosaccharides derived from lactose and lactulose. <i>Journal of Dairy Research</i> , <b>2009</b> , 76, 317-25	1.6	46
58	Free Fatty Acids Profiles Are Related to Gut Microbiota Signatures and Short-Chain Fatty Acids. <i>Frontiers in Immunology</i> , <b>2017</b> , 8, 823	8.4	45
57	Adherence to a Mediterranean Diet Influences the Fecal Metabolic Profile of Microbial-Derived Phenolics in a Spanish Cohort of Middle-Age and Older People. <i>Journal of Agricultural and Food Chemistry</i> , <b>2017</b> , 65, 586-595	5.7	44
56	Self-triggered functional electrical stimulation during swallowing. <i>Journal of Neurophysiology</i> , <b>2005</b> , 94, 4011-8	3.2	44

55	Fermented Dairy Foods: Impact on Intestinal Microbiota and Health-Linked Biomarkers. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 1046	5.7	41
54	The DPP-4 inhibitor vildagliptin impacts the gut microbiota and prevents disruption of intestinal homeostasis induced by a Western diet in mice. <i>Diabetologia</i> , <b>2018</b> , 61, 1838-1848	10.3	41
53	Proteomics of stress response in Bifidobacterium. <i>Frontiers in Bioscience - Landmark</i> , <b>2008</b> , 13, 6905-19	2.8	38
52	Adhesion of bile-adapted Bifidobacterium strains to the HT29-MTX cell line is modified after sequential gastrointestinal challenge simulated in vitro using human gastric and duodenal juices. <i>Research in Microbiology</i> , <b>2011</b> , 162, 514-9	4	36
51	Assessment of intestinal microbiota modulation ability of Bifidobacterium strains in in vitro fecal batch cultures from preterm neonates. <i>Anaerobe</i> , <b>2013</b> , 19, 9-16	2.8	35
50	Ezetimibe and simvastatin modulate gut microbiota and expression of genes related to cholesterol metabolism. <i>Life Sciences</i> , <b>2015</b> , 132, 77-84	6.8	32
49	Different metabolic features of Bacteroides fragilis growing in the presence of glucose and exopolysaccharides of bifidobacteria. <i>Frontiers in Microbiology</i> , <b>2015</b> , 6, 825	5.7	32
48	Assessment of intestinal microbiota of full-term breast-fed infants from two different geographical locations. <i>Early Human Development</i> , <b>2011</b> , 87, 511-3	2.2	31
47	Bacteroides fragilis metabolises exopolysaccharides produced by bifidobacteria. <i>BMC Microbiology</i> , <b>2016</b> , 16, 150	4.5	29
46	Different Intestinal Microbial Profile in Over-Weight and Obese Subjects Consuming a Diet with Low Content of Fiber and Antioxidants. <i>Nutrients</i> , <b>2017</b> , 9,	6.7	28
45	Long-Term Coffee Consumption is Associated with Fecal Microbial Composition in Humans. <i>Nutrients</i> , <b>2020</b> , 12,	6.7	25
44	Red wine consumption is associated with fecal microbiota and malondialdehyde in a human population. <i>Journal of the American College of Nutrition</i> , <b>2015</b> , 34, 135-41	3.5	24
43	Intestinal Microbiota and Weight-Gain in Preterm Neonates. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 183	5.7	23
42	Immune modulating capability of two exopolysaccharide-producing Bifidobacterium strains in a Wistar rat model. <i>BioMed Research International</i> , <b>2014</b> , 2014, 106290	3	23
41	Characterization of exopolysaccharides produced by Bifidobacterium longum NB667 and its cholate-resistant derivative strain IPLA B667dCo. <i>Journal of Agricultural and Food Chemistry</i> , <b>2012</b> , 60, 1028-35	5.7	22
40	Induction of alpha-L-arabinofuranosidase activity by monomeric carbohydrates in Bifidobacterium longum and ubiquity of encoding genes. <i>Archives of Microbiology</i> , <b>2007</b> , 187, 145-53	3	22
39	Supplementation with grape pomace in healthy women: Changes in biochemical parameters, gut microbiota and related metabolic biomarkers. <i>Journal of Functional Foods</i> , <b>2018</b> , 45, 34-46	5.1	21
38	In vitro evaluation of the impact of human background microbiota on the response to Bifidobacterium strains and fructo-oligosaccharides. <i>British Journal of Nutrition</i> , <b>2013</b> , 110, 2030-6	3.6	20

37	Microbiome: Effects of Ageing and Diet. <i>Current Issues in Molecular Biology</i> , <b>2020</b> , 36, 33-62	2.9	20
36	Functional Effects of EPS-Producing Administration on Energy Metabolic Alterations of Diet-Induced Obese Mice. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 1809	5.7	19
35	Fecal microbiota profile in a group of myasthenia gravis patients. <i>Scientific Reports</i> , <b>2018</b> , 8, 14384	4.9	19
34	Insights into the ropy phenotype of the exopolysaccharide-producing strain Bifidobacterium animalis subsp. lactis A1dOxR. <i>Applied and Environmental Microbiology</i> , <b>2013</b> , 79, 3870-4	4.8	18
33	Acquisition of bile salt resistance promotes antibiotic susceptibility changes in bifidobacterium. <i>Journal of Food Protection</i> , <b>2005</b> , 68, 1916-9	2.5	17
32	Selection of potential probiotic bifidobacteria and prebiotics for elderly by using in vitro faecal batch cultures. <i>European Food Research and Technology</i> , <b>2017</b> , 243, 157-165	3.4	16
31	In Vitro Evaluation of Different Prebiotics on the Modulation of Gut Microbiota Composition and Function in Morbid Obese and Normal-Weight Subjects. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	16
30	The establishment of the infant intestinal microbiome is not affected by rotavirus vaccination. <i>Scientific Reports</i> , <b>2014</b> , 4, 7417	4.9	15
29	Technological characterization and survival of the exopolysaccharide-producing strain Lactobacillus delbrueckii subsp. lactis 193 and its bile-resistant derivative 193+ in simulated gastric and intestinal juices. <i>Journal of Dairy Research</i> , <b>2011</b> , 78, 357-64	1.6	15
28	Exploring the interactions between serum free fatty acids and fecal microbiota in obesity through a machine learning algorithm. <i>Food Research International</i> , <b>2019</b> , 121, 533-541	7	15
27	Development of probiotic products for nutritional requirements of specific human populations. <i>Engineering in Life Sciences</i> , <b>2012</b> , 12, 368-376	3.4	14
26	Could Fecal Phenylacetic and Phenylpropionic Acids Be Used as Indicators of Health Status?. <i>Journal of Agricultural and Food Chemistry</i> , <b>2018</b> , 66, 10438-10446	5.7	12
25	Bioactive compounds from regular diet and faecal microbial metabolites. <i>European Journal of Nutrition</i> , <b>2018</b> , 57, 487-497	5.2	11
24	Early-Life Development of the Bifidobacterial Community in the Infant Gut. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	11
23	Bifidobacterium breve IPLA20005 affects in vitro the expression of hly and luxS genes, related to the virulence of Listeria monocytogenes Lm23. <i>Canadian Journal of Microbiology</i> , <b>2018</b> , 64, 215-221	3.2	10
22	Comparison of Different Dietary Indices as Predictors of Inflammation, Oxidative Stress and Intestinal Microbiota in Middle-Aged and Elderly Subjects. <i>Nutrients</i> , <b>2020</b> , 12,	6.7	9
21	Positive interaction between prebiotics and thiazolidinedione treatment on adiposity in diet-induced obese mice. <i>Obesity</i> , <b>2014</b> , 22, 1653-61	8	8
20	Impact of Extreme Obesity and Diet-Induced Weight Loss on the Fecal Metabolome and Gut Microbiota. <i>Molecular Nutrition and Food Research</i> , <b>2021</b> , 65, e2000030	5.9	8

19	Exopolysaccharides produced by lactic acid bacteria in food and probiotic applications <b>2010</b> , 885-902		7
18	Fatty acids intake and immune parameters in the elderly. <i>Nutricion Hospitalaria</i> , <b>2013</b> , 28, 474-8	1	6
17	Donated Human Milk as a Determinant Factor for the Gut Bifidobacterial Ecology in Premature Babies. <i>Microorganisms</i> , <b>2020</b> , 8,	4.9	6
16	A proteomic approach towards understanding the cross talk between <i>Bacteroides fragilis</i> and <i>Bifidobacterium longum</i> in coculture. <i>Canadian Journal of Microbiology</i> , <b>2016</b> , 62, 623-8	3.2	5
15	Real-time monitoring of HT29 epithelial cells as an in vitro model for assessing functional differences among intestinal microbiotas from different human population groups. <i>Journal of Microbiological Methods</i> , <b>2018</b> , 152, 210-216	2.8	5
14	Population Dynamics of Some Relevant Intestinal Microbial Groups in Human Fecal Batch Cultures with Added Fermentable Xylooligosaccharides Obtained from Rice Husks. <i>BioResources</i> , <b>2013</b> , 8,	1.3	5
13	Co-culture affects protein profile and heat tolerance of <i>Lactobacillus delbrueckii</i> subsp. <i>lactis</i> and <i>Bifidobacterium longum</i> . <i>Food Research International</i> , <b>2013</b> , 54, 1080-1083	7	4
12	Daily ingestion of <i>Akkermansia muciniphila</i> for one month promotes healthy aging and increases lifespan in old female mice. <i>Biogerontology</i> , <b>2021</b> , 1	4.5	4
11	Role of Bifidobacteria on Infant Health.. <i>Microorganisms</i> , <b>2021</b> , 9,	4.9	3
10	Impact of probiotics on development and behaviour in <i>Drosophila melanogaster</i> - a potential in vivo model to assess probiotics. <i>Beneficial Microbes</i> , <b>2019</b> , 10, 179-188	4.9	3
9	New players in the relationship between diet and microbiota: the role of macromolecular antioxidant polyphenols. <i>European Journal of Nutrition</i> , <b>2021</b> , 60, 1403-1413	5.2	3
8	Intestinal microbiota alterations by dietary exposure to chemicals from food cooking and processing. Application of data science for risk prediction. <i>Computational and Structural Biotechnology Journal</i> , <b>2021</b> , 19, 1081-1091	6.8	3
7	Levels of Predominant Intestinal Microorganisms in 1 Month-Old Full-Term Babies and Weight Gain during the First Year of Life. <i>Nutrients</i> , <b>2021</b> , 13,	6.7	2
6	Effect of Intrapartum Antibiotics Prophylaxis on the Bifidobacterial Establishment within the Neonatal Gut. <i>Microorganisms</i> , <b>2021</b> , 9,	4.9	2
5	Intestinal Immunomodulation and Shifts on the Gut Microbiota of BALB/c Mice Promoted by Two and Strains Isolated from Human Samples. <i>BioMed Research International</i> , <b>2019</b> , 2019, 2323540	3	1
4	Use of Fecal Slurry Cultures to Study In Vitro Effects of Bacteriocins on the Gut Bacterial Populations of Infants. <i>Probiotics and Antimicrobial Proteins</i> , <b>2020</b> , 12, 1218-1225	5.5	1
3	Selection of Probiotics for Microbiota Modulation in Normal-Weight and Severely Obese Individuals: Focus on Gas Production and Interaction With Intestinal Epithelial Cells. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 630572	5.7	1
2	Diet and Microbiota in the Elderly <b>2021</b> , 55-55		

- 1 Branched Short-Chain Fatty Acids as Biological Indicators of Microbiota Health and Links with Anthropometry. *Biomarkers in Disease*, **2022**, 1-17