

# Alejandro Mira

## List of Publications by Year in descending order

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120  
papers

10,856  
citations

31976

53  
h-index

33894

99  
g-index

125  
all docs

125  
docs citations

125  
times ranked

13696  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Importance of Nitrate Reduction for Oral Health. <i>Journal of Dental Research</i> , 2022, 101, 887-897.	5.2	38
2	Polymicrobial Aggregates in Human Saliva Build the Oral Biofilm. <i>MBio</i> , 2022, 13, e0013122.	4.1	23
3	Ulcerative Colitis Seems to Imply Oral Microbiome Dysbiosis. <i>Current Issues in Molecular Biology</i> , 2022, 44, 1513-1527.	2.4	8
4	Impact of COVID-19 Lockdown on the Nasopharyngeal Microbiota of Children and Adults Self-Confined at Home. <i>Viruses</i> , 2022, 14, 1521.	3.3	10
5	Effect of oral antiseptics in reducing SARS-CoV-2 infectivity: evidence from a randomized double-blind clinical trial. <i>Emerging Microbes and Infections</i> , 2022, 11, 1833-1842.	6.5	18
6	The Subgingival Plaque Microbiome, Systemic Antibodies against Bacteria and Citrullinated Proteins following Periodontal Therapy. <i>Pathogens</i> , 2021, 10, 193.	2.8	13
7	Mechanical biofilm disruption causes microbial and immunological shifts in periodontitis patients. <i>Scientific Reports</i> , 2021, 11, 9796.	3.3	30
8	A Single Dose of Nitrate Increases Resilience Against Acidification Derived From Sugar Fermentation by the Oral Microbiome. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 692883.	3.9	18
9	Evaluation of Clinical, Biochemical and Microbiological Markers Related to Dental Caries. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 6049.	2.6	10
10	Bacterial Composition and Metabolomics of Dental Plaque From Adolescents. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 716493.	3.9	26
11	Oral antiseptics against coronavirus: in-vitro and clinical evidence. <i>Journal of Hospital Infection</i> , 2021, 113, 30-43.	2.9	42
12	Evaluation of possible biomarkers for caries risk in children 6 to 12 years of age. <i>Journal of Oral Microbiology</i> , 2021, 13, 1956219.	2.7	5
13	Rapid Increase of Oral Bacteria in Nasopharyngeal Microbiota After Antibiotic Treatment in Children With Invasive Pneumococcal Disease. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 744727.	3.9	8
14	Differential nasopharyngeal microbiota composition in children according to respiratory health status. <i>Microbial Genomics</i> , 2021, 7, .	2.0	9
15	Real-time monitoring of <i>Pseudomonas aeruginosa</i> biofilm growth dynamics and persister cells™ eradication. <i>Emerging Microbes and Infections</i> , 2021, 10, 2062-2075.	6.5	21
16	<i>Streptococcus dentisani</i> is a common inhabitant of the oral microbiota worldwide and is found at higher levels in caries-free individuals. <i>International Microbiology</i> , 2021, 24, 619-629.	2.4	6
17	Clinical evaluation of antiseptic mouth rinses to reduce salivary load of SARS-CoV-2. <i>Scientific Reports</i> , 2021, 11, 24392.	3.3	36
18	A pilot study to assess oral colonization and pH buffering by the probiotic <i>Streptococcus dentisani</i> under different dosing regimes. <i>Odontology / the Society of the Nippon Dental University</i> , 2020, 108, 180-187.	1.9	34

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19	High-throughput DNA sequencing of microbiota at interproximal sites. <i>Journal of Oral Microbiology</i> , 2020, 12, 1687397.	2.7	19
20	Allergy development is associated with consumption of breastmilk with a reduced microbial richness in the first month of life. <i>Pediatric Allergy and Immunology</i> , 2020, 31, 250-257.	2.6	37
21	Nitrate as a potential prebiotic for the oral microbiome. <i>Scientific Reports</i> , 2020, 10, 12895.	3.3	73
22	Human milk microbiota in sub-acute lactational mastitis induces inflammation and undergoes changes in composition, diversity and load. <i>Scientific Reports</i> , 2020, 10, 18521.	3.3	17
23	Isolation and Characterization of Nitrate-Reducing Bacteria as Potential Probiotics for Oral and Systemic Health. <i>Frontiers in Microbiology</i> , 2020, 11, 555465.	3.5	60
24	Topic Application of the Probiotic <i>Streptococcus dentisani</i> Improves Clinical and Microbiological Parameters Associated With Oral Health. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 465.	3.9	28
25	Antibiofilm activity of flavonoids on staphylococcal biofilms through targeting BAP amyloids. <i>Scientific Reports</i> , 2020, 10, 18968.	3.3	29
26	Effect of Dalbavancin on Staphylococcal Biofilms When Administered Alone or in Combination With Biofilm-Detaching Compounds. <i>Frontiers in Microbiology</i> , 2020, 11, 553.	3.5	27
27	Microbiology of molarâ€“incisor hypomineralization lesions. A pilot study. <i>Journal of Oral Microbiology</i> , 2020, 12, 1766166.	2.7	6
28	Shifts in Composition and Activity of Oral Biofilms After Fluoride Exposure. <i>Microbial Ecology</i> , 2020, 80, 729-738.	2.8	7
29	Variations in Vaginal, Penile, and Oral Microbiota After Sexual Intercourse: A Case Report. <i>Frontiers in Medicine</i> , 2019, 6, 178.	2.6	18
30	Presence of <i>Streptococcus dentisani</i> in the dental plaque of children from different Colombian cities. <i>Clinical and Experimental Dental Research</i> , 2019, 5, 184-190.	1.9	5
31	Sputum Microbiome Dynamics in Chronic Obstructive Pulmonary Disease Patients during an Exacerbation Event and Post-Stabilization. <i>Respiration</i> , 2019, 98, 447-454.	2.6	11
32	Microbiota of human precolostrum and its potential role as a source of bacteria to the infant mouth. <i>Scientific Reports</i> , 2019, 9, 8435.	3.3	51
33	In vitro beneficial effects of <i>Streptococcus dentisani</i> as potential oral probiotic for periodontal diseases. <i>Journal of Periodontology</i> , 2019, 90, 1346-1355.	3.4	38
34	Development of an <i>in vitro</i> system to study oral biofilms in real time through impedance technology: validation and potential applications. <i>Journal of Oral Microbiology</i> , 2019, 11, 1609838.	2.7	32
35	Biomonitoring detoxification efficiency of an algal-bacterial microcosm system for treatment of coking wastewater: Harmonization between <i>Chlorella vulgaris</i> microalgae and wastewater microbiome. <i>Science of the Total Environment</i> , 2019, 677, 120-130.	8.0	24
36	Mycobiome Profiles in Breast Milk from Healthy Women Depend on Mode of Delivery, Geographic Location, and Interaction with Bacteria. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	76

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37	Antimicrobial efficacy of the supernatant of <i>Streptococcus dentisani</i> against microorganisms implicated in root canal infections. <i>Journal of Oral Science</i> , 2019, 61, 184-194.	1.7	22
38	Nasopharyngeal Microbiota in Children With Invasive Pneumococcal Disease: Identification of Bacteria With Potential Disease-Promoting and Protective Effects. <i>Frontiers in Microbiology</i> , 2019, 10, 11.	3.5	33
39	Inhibition of Oral Pathogens Adhesion to Human Gingival Fibroblasts by Wine Polyphenols Alone and in Combination with an Oral Probiotic. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 2071-2082.	5.2	43
40	Oral microbiota maturation during the first 7 years of life in relation to allergy development. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2018, 73, 2000-2011.	5.7	82
41	Combined analysis of the salivary microbiome and host defence peptides predicts dental disease. <i>Scientific Reports</i> , 2018, 8, 1484.	3.3	19
42	Inhibition of <i>Streptococcus mutans</i> biofilm formation by extracts of <i>Tenacibaculum</i> sp. 20J, a bacterium with wide-spectrum quorum quenching activity. <i>Journal of Oral Microbiology</i> , 2018, 10, 1429788.	2.7	36
43	Oral Microbiome Studies: Potential Diagnostic and Therapeutic Implications. <i>Advances in Dental Research</i> , 2018, 29, 71-77.	3.6	64
44	Resilience of the Oral Microbiota in Health: Mechanisms That Prevent Dysbiosis. <i>Journal of Dental Research</i> , 2018, 97, 371-380.	5.2	259
45	Gut Microbiota and Mucosal Immunity in the Neonate. <i>Medical Sciences (Basel, Switzerland)</i> , 2018, 6, 56.	2.9	67
46	<i>In situ</i> substrate-formed biofilms using IDODS mimic supragingival tooth-formed biofilms. <i>Journal of Oral Microbiology</i> , 2018, 10, 1495975.	2.7	4
47	Stimulated and unstimulated saliva samples have significantly different bacterial profiles. <i>PLoS ONE</i> , 2018, 13, e0198021.	2.5	58
48	Oral microbiome development during childhood: an ecological succession influenced by postnatal factors and associated with tooth decay. <i>ISME Journal</i> , 2018, 12, 2292-2306.	9.8	180
49	Frequency of abnormal and stereotypic behaviors in urban police patrolling horses: A continuous 48-hour study. <i>Revista Colombiana De Ciencias Pecuarias</i> , 2018, 31, 17-25.	0.4	3
50	Role of microbial communities in the pathogenesis of periodontal diseases and caries. <i>Journal of Clinical Periodontology</i> , 2017, 44, S23-S38.	4.9	176
51	Role of microbial biofilms in the maintenance of oral health and in the development of dental caries and periodontal diseases. Consensus report of group 1 of the Joint EFP/ORCA workshop on the boundaries between caries and periodontal disease. <i>Journal of Clinical Periodontology</i> , 2017, 44, S5-S11.	4.9	273
52	Characterization of the Gastric Microbiota in a Pediatric Population According to <i>Helicobacter pylori</i> Status. <i>Pediatric Infectious Disease Journal</i> , 2017, 36, 173-178.	2.0	71
53	Second Era of OMICS in Caries Research: Moving Past the Phase of Disillusionment. <i>Journal of Dental Research</i> , 2017, 96, 733-740.	5.2	46
54	Effect of antibiotics on biofilm inhibition and induction measured by real-time cell analysis. <i>Journal of Applied Microbiology</i> , 2017, 122, 640-650.	3.1	57

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55	Multiple Approaches Detect the Presence of Fungi in Human Breastmilk Samples from Healthy Mothers. <i>Scientific Reports</i> , 2017, 7, 13016.	3.3	72
56	Aberrant IgA responses to the gut microbiota during infancy precede asthma and allergy development. <i>Journal of Allergy and Clinical Immunology</i> , 2017, 139, 1017-1025.e14.	2.9	129
57	Salivary Immune and Metabolic Marker Analysis (SIMMA): A Diagnostic Test to Predict Caries Risk. <i>Diagnostics</i> , 2017, 7, 38.	2.6	13
58	Health-Associated Niche Inhabitants as Oral Probiotics: The Case of <i>Streptococcus dentisani</i> . <i>Frontiers in Microbiology</i> , 2017, 8, 379.	3.5	140
59	Isolation of Human Intestinal Bacteria Capable of Producing the Bioactive Metabolite Isourolithin A from Ellagic Acid. <i>Frontiers in Microbiology</i> , 2017, 8, 1521.	3.5	141
60	The Origin of Human Milk Bacteria. , 2017, , 349-364.		6
61	Relationship between Milk Microbiota, Bacterial Load, Macronutrients, and Human Cells during Lactation. <i>Frontiers in Microbiology</i> , 2016, 7, 492.	3.5	217
62	Age-Related Differences in the Gastrointestinal Microbiota of Chinstrap Penguins ( <i>Pygoscelis</i> ) Tj ETQq0 0 0 rgBT /Oyerlock 10 Tf 50 462	2.5	79
63	Impact of mode of delivery on the milk microbiota composition of healthy women. <i>Journal of Developmental Origins of Health and Disease</i> , 2016, 7, 54-60.	1.4	132
64	Oral Biofilm Architecture at the Microbial Scale. <i>Trends in Microbiology</i> , 2016, 24, 246-248.	7.7	38
65	Characterization of the microbiota associated to <i>Pecten maximus</i> gonads using 454-pyrosequencing. <i>International Microbiology</i> , 2016, 19, 93-99.	2.4	18
66	The human oral metaproteome reveals potential biomarkers for caries disease. <i>Proteomics</i> , 2015, 15, 3497-3507.	2.2	66
67	Relationship between periodontitis-associated subgingival microbiota and clinical inflammation by 16S pyrosequencing. <i>Journal of Clinical Periodontology</i> , 2015, 42, 1074-1082.	4.9	68
68	Editorial: The oral microbiome in an ecological perspective. <i>Frontiers in Cellular and Infection Microbiology</i> , 2015, 5, 39.	3.9	14
69	Subgingival microbiota in health compared to periodontitis and the influence of smoking. <i>Frontiers in Microbiology</i> , 2015, 6, 119.	3.5	178
70	Analysis of microbiota in stable patients with chronic obstructive pulmonary disease. <i>Apmis</i> , 2015, 123, 427-432.	2.0	18
71	Revealing microbial recognition by specific antibodies. <i>BMC Microbiology</i> , 2015, 15, 132.	3.3	28
72	Solving the etiology of dental caries. <i>Trends in Microbiology</i> , 2015, 23, 76-82.	7.7	359

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73	Microbial mucosal colonic shifts associated with the development of colorectal cancer reveal the presence of different bacterial and archaeal biomarkers. <i>Journal of Gastroenterology</i> , 2015, 50, 167-179.	5.1	224
74	Relationship of children's salivary microbiota with their caries status: a pyrosequencing study. <i>Clinical Oral Investigations</i> , 2014, 18, 2087-2094.	3.0	43
75	Pyrosequencing survey of intestinal microbiota diversity in cultured sea bass ( <i>Dicentrarchus labrax</i> ). <i>Journal of Applied Microbiology</i> , 2014, 116, 119-127.	2.7	119
76	<i>Streptococcus dentisani</i> sp. nov., a novel member of the mitis group. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2014, 64, 60-65.	1.7	64
77	Sputum microbiota in moderate versus severe patients with COPD. <i>European Respiratory Journal</i> , 2014, 43, 1787-1790.	6.7	52
78	Microbiota diversity and gene expression dynamics in human oral biofilms. <i>BMC Genomics</i> , 2014, 15, 311.	2.8	142
79	Metatranscriptomics reveals overall active bacterial composition in caries lesions. <i>Journal of Oral Microbiology</i> , 2014, 6, 25443.	2.7	125
80	Gut Bacterial Diversity of the House Sparrow ( <i>Passer domesticus</i> ) Inferred by 16S rRNA Sequence Analysis. <i>Metagenomics (Cairo, Egypt)</i> , 2014, 3, 1-11.	1.2	20
81	Microbiological Survey of the Human Gastric Ecosystem Using Culturing and Pyrosequencing Methods. <i>Microbial Ecology</i> , 2013, 65, 763-772.	2.8	166
82	Microbial Geography of the Oral Cavity. <i>Journal of Dental Research</i> , 2013, 92, 616-621.	5.2	225
83	A Tissue-Dependent Hypothesis of Dental Caries. <i>Caries Research</i> , 2013, 47, 591-600.	2.0	115
84	Dental Caries from a Molecular Microbiological Perspective. <i>Caries Research</i> , 2013, 47, 89-102.	2.0	196
85	Optical encryption and QR codes: Secure and noise-free information retrieval. <i>Optics Express</i> , 2013, 21, 5373.	3.4	166
86	Reply to Z Weizman. <i>American Journal of Clinical Nutrition</i> , 2013, 97, 656-657.	4.7	1
87	Active and secreted IgA-coated bacterial fractions from the human gut reveal an under-represented microbiota core. <i>Scientific Reports</i> , 2013, 3, 3515.	3.3	41
88	Detection of Transient Bacteraemia following Dental Extractions by 16S rDNA Pyrosequencing: A Pilot Study. <i>PLoS ONE</i> , 2013, 8, e57782.	2.5	57
89	Microbiome Diversity in the Bronchial Tracts of Patients with Chronic Obstructive Pulmonary Disease. <i>Journal of Clinical Microbiology</i> , 2012, 50, 3562-3568.	3.9	181
90	The oral metagenome in health and disease. <i>ISME Journal</i> , 2012, 6, 46-56.	9.8	420

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91	The human milk microbiome changes over lactation and is shaped by maternal weight and mode of delivery. <i>American Journal of Clinical Nutrition</i> , 2012, 96, 544-551.	4.7	696
92	Identifying a healthy oral microbiome through metagenomics. <i>Clinical Microbiology and Infection</i> , 2012, 18, 54-57.	6.0	70
93	Amplification by PCR Artificially Reduces the Proportion of the Rare Biosphere in Microbial Communities. <i>PLoS ONE</i> , 2012, 7, e29973.	2.5	131
94	Four chromosome replication origins in the archaeon <i>Pyrobaculum calidifontis</i> . <i>Molecular Microbiology</i> , 2012, 85, 986-995.	2.5	39
95	Reconstructing Viral Genomes from the Environment Using Fosmid Clones: The Case of Haloviruses. <i>PLoS ONE</i> , 2012, 7, e33802.	2.5	78
96	Mining Virulence Genes Using Metagenomics. <i>PLoS ONE</i> , 2011, 6, e24975.	2.5	16
97	Viral and microbial community dynamics in four aquatic environments. <i>ISME Journal</i> , 2010, 4, 739-751.	9.8	387
98	Metagenome of the Mediterranean deep chlorophyll maximum studied by direct and fosmid library 454 pyrosequencing. <i>ISME Journal</i> , 2010, 4, 1154-1166.	9.8	109
99	Hybrid adaptive-optics visual simulator. <i>Optics Letters</i> , 2010, 35, 196.	3.3	33
100	The bacterial pan-genome: a new paradigm in microbiology. <i>International Microbiology</i> , 2010, 13, 45-57.	2.4	168
101	Metagenomic islands of hyperhalophiles: the case of <i>Salinibacter ruber</i> . <i>BMC Genomics</i> , 2009, 10, 570.	2.8	64
102	Explaining microbial population genomics through phage predation. <i>Nature Reviews Microbiology</i> , 2009, 7, 828-836.	28.6	596
103	Comparative genomics of two ecotypes of the marine planktonic copiotroph <i>Alteromonas macleodii</i> suggests alternative lifestyles associated with different kinds of particulate organic matter. <i>ISME Journal</i> , 2008, 2, 1194-1212.	9.8	185
104	Adapting to environmental changes using specialized paralogs. <i>Trends in Genetics</i> , 2008, 24, 154-158.	6.7	76
105	Intragenomic 16S rDNA Divergence in <i>Haloarcula marismortui</i> Is an Adaptation to Different Temperatures. <i>Journal of Molecular Evolution</i> , 2007, 65, 687-696.	1.8	76
106	The Neolithic revolution of bacterial genomes. <i>Trends in Microbiology</i> , 2006, 14, 200-206.	7.7	135
107	Genome Rearrangements, Deletions, and Amplifications in the Natural Population of <i>Bartonella henselae</i> . <i>Journal of Bacteriology</i> , 2006, 188, 7426-7439.	2.2	47
108	Characterization of the Genome Composition of <i>Bartonella koehlerae</i> by Microarray Comparative Genomic Hybridization Profiling. <i>Journal of Bacteriology</i> , 2005, 187, 6155-6165.	2.2	32

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109	The Silencing of Pseudogenes. <i>Molecular Biology and Evolution</i> , 2005, 22, 2135-2138.	8.9	28
110	Equilateral hyperbolic moiré $\frac{1}{2}$ zone plates with variable focus obtained by rotations. <i>Optics Express</i> , 2005, 13, 918.	3.4	7
111	Gene Location and Bacterial Sequence Divergence. <i>Molecular Biology and Evolution</i> , 2002, 19, 1350-1358.	8.9	53
112	Microbial genome evolution: sources of variability. <i>Current Opinion in Microbiology</i> , 2002, 5, 506-512.	5.1	107
113	Estimating Population Size and Transmission Bottlenecks in Maternally Transmitted Endosymbiotic Bacteria. <i>Microbial Ecology</i> , 2002, 44, 137-143.	2.8	205
114	Trade-offs in host use by <i>Manduca sexta</i> : plant characters vs natural enemies. <i>Oikos</i> , 2002, 97, 387-397.	2.7	88
115	Deletional bias and the evolution of bacterial genomes. <i>Trends in Genetics</i> , 2001, 17, 589-596.	6.7	687
116	Mitochondria and the death of oocytes. <i>Nature</i> , 2000, 403, 501-501.	27.8	37
117	Exuviae eating: a nitrogen meal?. <i>Journal of Insect Physiology</i> , 2000, 46, 605-610.	2.0	45
118	Sex-specific differences in nitrogen intake and investment by feral and laboratory-cultured cockroaches. <i>Journal of Insect Physiology</i> , 2000, 46, 677-684.	2.0	11
119	Mitochondria and germ-cell death. <i>Nature</i> , 1999, 400, 125-126.	27.8	140
120	Why is Meiosis Arrested?. <i>Journal of Theoretical Biology</i> , 1998, 194, 275-287.	1.7	25