Marlise InÃªz Klein

List of Publications by Year
in descending order

70 papers	4,897 citations	126901 33 h-index	98792 67 g-index
71 all docs	71 docs citations	71 times ranked	4455 citing authors

#	Article	IF	Citations
1	Symbiotic Relationship between Streptococcus mutans and Candida albicans Synergizes Virulence of Plaque Biofilms In Vivo. Infection and Immunity, 2014, 82, 1968-1981.	2.2	451
2	The Exopolysaccharide Matrix Modulates the Interaction between 3D Architecture and Virulence of a Mixed-Species Oral Biofilm. PLoS Pathogens, 2012, 8, e1002623.	4.7	428
3	The Exopolysaccharide Matrix. Journal of Dental Research, 2013, 92, 1065-1073.	5.2	414
4	Exopolysaccharides Produced by Streptococcus mutans Glucosyltransferases Modulate the Establishment of Microcolonies within Multispecies Biofilms. Journal of Bacteriology, 2010, 192, 3024-3032.	2.2	404
5	pH-Activated Nanoparticles for Controlled Topical Delivery of Farnesol To Disrupt Oral Biofilm Virulence. ACS Nano, 2015, 9, 2390-2404.	14.6	266
6	Streptococcus mutans Extracellular DNA Is Upregulated during Growth in Biofilms, Actively Released via Membrane Vesicles, and Influenced by Components of the Protein Secretion Machinery. Journal of Bacteriology, 2014, 196, 2355-2366.	2.2	249
7	Streptococcus mutans-derived extracellular matrix in cariogenic oral biofilms. Frontiers in Cellular and Infection Microbiology, 2015, 5, 10.	3.9	248
8	Advances in the microbial etiology and pathogenesis of early childhood caries. Molecular Oral Microbiology, 2017, 32, 24-34.	2.7	169
9	Role of Glucosyltransferase B in Interactions of Candida albicans with Streptococcus mutans and with an Experimental Pellicle on Hydroxyapatite Surfaces. Applied and Environmental Microbiology, 2011, 77, 6357-6367.	3.1	162
10	Structural and Molecular Basis of the Role of Starch and Sucrose in Streptococcus mutans Biofilm Development. Applied and Environmental Microbiology, 2009, 75, 837-841.	3.1	128
11	Effect of Starch and Sucrose on Dental Biofilm Formation and on Root Dentine Demineralization. Caries Research, 2008, 42, 380-386.	2.0	119
12	Dynamics of Streptococcus mutans Transcriptome in Response to Starch and Sucrose during Biofilm Development. PLoS ONE, 2010, 5, e13478.	2.5	106
13	Clinical and microbiologic changes after removal of orthodontic appliances. American Journal of Orthodontics and Dentofacial Orthopedics, 2004, 126, 363-366.	1.7	101
14	Transmission, diversity and virulence factors of Streptococcus mutans genotypes. Journal of Oral Science, 2005, 47, 59-64.	1.7	87
15	Longitudinal Study of Transmission, Diversity, and Stability of Streptococcus mutans and Streptococcus sobrinus Genotypes in Brazilian Nursery Children. Journal of Clinical Microbiology, 2004, 42, 4620-4626.	3.9	86
16	Influences of starch and sucrose on Streptococcus mutans biofilms. Oral Microbiology and Immunology, 2008, 23, 206-212.	2.8	75
17	Streptococcus mutans Protein Synthesis during Mixed-Species Biofilm Development by High-Throughput Quantitative Proteomics. PLoS ONE, 2012, 7, e45795.	2.5	74
18	Characterization and optimization of pH-responsive polymer nanoparticles for drug delivery to oral biofilms. Journal of Materials Chemistry B, 2016, 4, 3075-3085.	5.8	69

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19	Extracellular Polysaccharides Matrix â€" An Often Forgotten Virulence Factor in Oral Biofilm Research. International Journal of Oral Science, 2009, 1, 229-234.	8.6	65
20	Extracellular DNA and lipoteichoic acids interact with exopolysaccharides in the extracellular matrix of Streptococcus mutans biofilms. Biofouling, 2017, 33, 722-740.	2.2	63
21	Analysis of the mechanical stability and surface detachment of matureStreptococcus mutansbiofilms by applying a range of external shear forces. Biofouling, 2014, 30, 1079-1091.	2.2	61
22	Influences of naturally occurring agents in combination with fluoride on gene expression and structural organization of Streptococcus mutans in biofilms. BMC Microbiology, 2009, 9, 228.	3.3	60
23	Influences of transâ€trans farnesol, a membraneâ€targeting sesquiterpenoid, on Streptococcus mutans physiology and survival within mixedâ€species oral biofilms. International Journal of Oral Science, 2011, 3, 98-106.	8.6	59
24	Periodontal and microbiologic evaluation of 2 methods of archwire ligation: Ligature wires and elastomeric rings. American Journal of Orthodontics and Dentofacial Orthopedics, 2008, 134, 506-512.	1.7	57
25	Novel Antibiofilm Chemotherapy Targets Exopolysaccharide Synthesis and Stress Tolerance in Streptococcus mutans To Modulate Virulence Expression In Vivo. Antimicrobial Agents and Chemotherapy, 2012, 56, 6201-6211.	3.2	55
26	Genetic diversity and exoenzyme activities of Candida albicans and Candida dubliniensis isolated from the oral cavity of Brazilian periodontal patients. Archives of Oral Biology, 2008, 53, 1172-1178.	1.8	53
27	Dual-species biofilms ofStreptococcus mutansandCandida albicansexhibit more biomass and are mutually beneficial compared with single-species biofilms. Journal of Oral Microbiology, 2019, 11, 1581520.	2.7	52
28	The specific degree-of-polymerization of A-type proanthocyanidin oligomers impactsStreptococcus mutansglucan-mediated adhesion and transcriptome responses within biofilms. Biofouling, 2013, 29, 629-640.	2.2	45
29	Molecular approaches for viable bacterial population and transcriptional analyses in a rodent model of dental caries. Molecular Oral Microbiology, 2012, 27, 350-361.	2.7	44
30	Effect of Twice-Daily Blue Light Treatment on Matrix-Rich Biofilm Development. PLoS ONE, 2015, 10, e0131941.	2.5	44
31	Effect of tt-farnesol and myricetin on in vitro biofilm formed by Streptococcus mutans and Candida albicans. BMC Complementary and Alternative Medicine, 2018, 18, 61.	3.7	37
32	Elevated Incidence of Dental Caries in a Mouse Model of Cystic Fibrosis. PLoS ONE, 2011, 6, e16549.	2.5	36
33	Detection ofTannerella forsythensis(Bacteroides forsythus) andPorphyromonas gingivalisby Polymerase Chain Reaction in Subjects with Different Periodontal Status. Journal of Periodontology, 2003, 74, 798-802.	3.4	34
34	Lessons Learned from Clinical Studies: Roles of Mutans Streptococci in the Pathogenesis of Dental Caries. Current Oral Health Reports, 2014, 1, 70-78.	1.6	34
35	Inactivation of genes TEC1 and EFG1 in Candida albicans influences extracellular matrix composition and biofilm morphology. Journal of Oral Microbiology, 2017, 9, 1385372.	2.7	30
36	Antimicrobial photodynamic therapy alone or in combination with antibiotic local administration against biofilms of Fusobacterium nucleatum and Porphyromonas gingivalis. Journal of Photochemistry and Photobiology B: Biology, 2018, 188, 135-145.	3.8	26

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37	Extracellular matrix influence in Streptococcus mutans gene expression in a cariogenic biofilm. Molecular Oral Microbiology, 2018, 33, 181-193.	2.7	24
38	Genetic Diversity of Competence Gene Loci in Clinical Genotypes of Streptococcus mutans. Journal of Clinical Microbiology, 2006, 44, 3015-3020.	3.9	23
39	Fluconazole impacts the extracellular matrix of fluconazole-susceptible and -resistant Candida albicans and Candida glabrata biofilms. Journal of Oral Microbiology, 2018, 10, 1476644.	2.7	23
40	An Analytical Tool-box for Comprehensive Biochemical, Structural and Transcriptome Evaluation of Oral Biofilms Mediated by Mutans Streptococci. Journal of Visualized Experiments, 2011, , .	0.3	22
41	Quantitative assessment of salivary oral bacteria according to the severity of dental caries in childhood. Archives of Oral Biology, 2017, 83, 282-288.	1.8	22
42	A quest to find good primers for gene expression analysis of Candida albicans from clinical samples. Journal of Microbiological Methods, 2018, 147, 1-13.	1.6	21
43	Anin vitromodel ofFusobacterium nucleatumandPorphyromonas gingivalisin single- and dual-species biofilms. Journal of Periodontal and Implant Science, 2018, 48, 12.	2.0	21
44	Microbiological Changes With the Use of Locally Delivered Doxycycline in the Periodontal Treatment of Smokers. Journal of Periodontology, 2004, 75, 1600-1604.	3.4	20
45	Time of initial acquisition of mutans streptococci by human infants. Journal of Clinical Pediatric Dentistry, 2004, 28, 303-309.	1.0	20
46	Biotyping and genotypic diversity among oral Candida albicans strains from caries-free and caries-active healthy children. Brazilian Journal of Microbiology, 2006, 37, 26-32.	2.0	20
47	Antimicrobial photodynamic therapy reduces gene expression of Candida albicans in biofilms. Photodiagnosis and Photodynamic Therapy, 2020, 31, 101825.	2.6	20
48	Inactivation of Streptococcus mutans genes lytST and dltAD impairs its pathogenicity in vivo. Journal of Oral Microbiology, 2019, 11, 1607505.	2.7	18
49	DNase increases the efficacy of antimicrobial photodynamic therapy on Candida albicans biofilms. Photodiagnosis and Photodynamic Therapy, 2019, 27, 124-131.	2.6	18
50	Compounds with Distinct Targets Present Diverse Antimicrobial and Antibiofilm Efficacy against Candida albicans and Streptococcus mutans, and Combinations of Compounds Potentiate Their Effect. Journal of Fungi (Basel, Switzerland), 2021, 7, 340.	3.5	16
51	Antimicrobial and antibiofilm activities of Casearia sylvestris extracts from distinct Brazilian biomes against Streptococcus mutans and Candida albicans. BMC Complementary and Alternative Medicine, 2019, 19, 308.	3.7	15
52	Educational strategies and atraumatic restorative treatment effect on salivary characteristics: A controlled clinical trial. Oral Diseases, 2017, 23, 1116-1126.	3.0	14
53	Salivary Microbiological and Gingival Health Status Evaluation of Adolescents With Overweight and Obesity: A Cluster Analysis. Frontiers in Pediatrics, 2020, 8, 429.	1.9	11
54	Modulation of Lipoteichoic Acids and Exopolysaccharides Prevents Streptococcus mutans Biofilm Accumulation. Molecules, 2020, 25, 2232.	3.8	11

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55	Polymicrobial biofilms related to dental implant diseases: unravelling the critical role of extracellular biofilm matrix. Critical Reviews in Microbiology, 2023, 49, 370-390.	6.1	10
56	Nanoparticle carrier co-delivery of complementary antibiofilm drugs abrogates dual species cariogenic biofilm formation in vitro. Journal of Oral Microbiology, 2022, 14, 1997230.	2.7	9
57	Consecutive treatments with photodynamic therapy and nystatin altered the expression of virulence and ergosterol biosynthesis genes of a fluconazole-resistant Candida albicans in vivo. Photodiagnosis and Photodynamic Therapy, 2021, 33, 102155.	2.6	8
58	Influence of the use of complete denture adhesives on microbial adhesion and biofilm formation by single- and mixed-species. PLoS ONE, 2018, 13, e0203951.	2.5	7
59	Successive applications of Antimicrobial Photodynamic Therapy effects the susceptibility of Candida albicans grown in medium with or without fluconazole. Photodiagnosis and Photodynamic Therapy, 2020, 32, 102018.	2.6	7
60	Increase in Probing Depth Is Correlated With a Higher Number ofPrevotella intermediaGenotypes. Journal of Periodontology, 2006, 77, 61-66.	3.4	6
61	Gene expression of Candida albicans strains isolates from patients with denture stomatitis submitted to treatments with photodynamic therapy and nystatin. Photodiagnosis and Photodynamic Therapy, 2021, 35, 102292.	2.6	5
62	DNase enhances photodynamic therapy against fluconazoleâ€resistant Candida albicans biofilms. Oral Diseases, 2022, , .	3.0	4
63	Distinct Agents Induce Streptococcus mutans Cells with Altered Biofilm Formation Capacity. Microbiology Spectrum, 2022, 10, .	3.0	4
64	Lactobacillus casei reduces the extracellular matrix components of fluconazole-susceptible Candida albicans biofilms. Biofouling, 2021, , 1-16.	2.2	3
65	Systematic Approach to Identify Novel Antimicrobial and Antibiofilm Molecules from Plants' Extracts and Fractions to Prevent Dental Caries. Journal of Visualized Experiments, 2021, , .	0.3	1
66	Microbial Adhesion and Biofilm Formation on Bioactive Surfaces of Ti-35Nb-7Zr-5Ta Alloy Created by Anodization. Microorganisms, 2021, 9, 2154.	3.6	1
67	Oral Streptococci. , 2022, , 125-137.		1
68	Topical Application of 4â€²-Hydroxychalcone in Combination with tt-Farnesol Is Effective against Candida albicans and Streptococcus mutans Biofilms. ACS Omega, 2022, 7, 22773-22786.	3.5	1
69	Establishment of microcosm biofilm models that reproduce a cariogenic diet intake. Biofouling, 2020, 36, 1-14.	2.2	0
70	Nanotechnology and Delivery System for Bioactive Antibiofilm Dental Materials. , 2020, , 165-197.		0